

ANDHRA PRADESH PUBLIC SERVICE COMMISSION: VIJAYAWADA**NOTIFICATION NO.09/2018, Dt.29/11/2018****ASSISTANT EXECUTIVE ENGINEERS IN VARIOUS ENGINEERING SERVICES
(GENERAL RECRUITMENT)****PARA – 1:**

- 1.1. Applications are invited online for recruitment to the post of Assistant Executive Engineers in various Engineering Services for a total of 309 vacancies in the scale of pay of Rs.37,100 - 91,450 from candidates within the age group of 18 - 42 years as on 01.07.2018.
- 1.2. The proforma application will be available on Commission's Website (<https://psc.ap.gov.in>) from **03/12/2018 to 24/12/2018** (Note: **23/12/2018** is the last date for payment of fee upto 11:59 mid night).
- 1.3. Before applying for the post, an applicant shall register his/her bio-data particulars through One Time Profile Registration (OTPR) on the Commission's Website viz., <https://psc.ap.gov.in>. Once applicant registers his/her particulars, a user ID is generated and sent to his/her registered mobile number and email ID. Applicants need to apply for the post using the OTPR user ID through Commission's website.
- 1.4. The Commission conducts Screening test in offline mode in case applicants exceed 25,000 in number as per G.O.Ms.No.150, Finance (HR-I, Plg & Policy) Dept., dated:08.08.2016 and likely to be held on **10/02/2019**. Instructions regarding offline examination recruitment test are attached as Annexure – III.
- 1.5. The main examination in online mode for candidates selected in screening test will be held through computer based test on **01/04/2019 FN & AN, 02/04/2019 FN & AN**. There would be objective type questions which are to be answered on computer system. Instructions regarding computer based recruitment test are attached as Annexure - III. In case any paper of the Examination is held in different languages, the candidate has to choose the medium in which he/she wants to write the examination and the paper will be valued with reference to that medium only.
- 1.6. A general Mock Test facility is available to the applicants to acquaint themselves with the computer based recruitment test. Applicant can visit the website and practice the answering pattern under MOCK TEST option available on main page of website <https://psc.ap.gov.in>.
- 1.7. The applicant is required to visit the Commission's website regularly to keep himself / herself updated until completion of the recruitment process. The Commission's website information is final for all correspondence. No individual correspondence by any means will be entertained under any circumstances.
- 1.8. HALL TICKETS can be downloaded whenever the Commission uploads them to its website. Intimation would be given through the website regarding downloading of Hall Tickets.
- 1.9. All desirous and eligible candidates shall apply online after satisfying themselves that they are eligible as per the terms and conditions of this recruitment notification. Any application sent through any mode other than the prescribed online mode will not be entertained under any circumstances. Submission of application form by the candidate is authentication that he / she has read the notification and shall abide by the terms and conditions laid down there under.
- 1.10. The details of vacancies are as follows:-

I. CARRIED FORWARD (CF) VACANCIES

Post Code No.	Name of the Department	Zone wise vacancies				Total
		I	II	III	IV	
01	AEE (Civil) in AP Rural Water Supply and sanitation Dept.,	19	08	17	34	78
02	AEE (Civil) in Roads & Buildings Engineering Service	08	11	06	08	33
03	AEE (Electrical) in Roads & Buildings Engg. Service.	04 (State wide post)				04
04	AEE (Civil) in A.P. Water Resources Department.	04	02	06	07	19
05	AEE (Mech) in A.P. Water Resources Department.	-	-	-	02	02

06	AEE (Civil / Mech) in A.P Panchayat Raj & RD Engineering Service.	01	-	02	-	03
07	AEE (Civil / Mech) in A.P Tribal Welfare Engineering Department.	-	01	-	02	03
08	AEE (Civil) in A.P Public Health & Municipal Engineering Department.	-	01	01	-	02
Total Carried Forward vacancies						144

Note: As per G.O.Ms.No.277, GA (SC & ST CELL .B) Dept., dated: 22.03.1976 and G.O.Ms.No.23 Backward Class (Welfare) Dept., dated: 18.03.1996 the Carry Forward Vacancies to be filled first by a relevant community candidate in succeeding recruitment.

II. FRESH VACANCIES

Post Code No.	Name of the Department	Zone wise vacancies				Total
		I	II	III	IV	
01	AEE (Civil) in AP Rural Water Supply and sanitation Dept.,	20	10	03	25	58
02	AEE (Civil) in Roads & Buildings Engineering Service	07	09	04	05	25
03	AEE (Electrical) in Roads & Buildings Engg. Service.	Nil				-
04	AEE (Civil) in A.P. Water Resources Department.	08	09	11	17	45
05	AEE (Mech) in A.P. Water Resources Department.	01	01	01	02	05
06	AEE (Civil / Mech) in A.P Panchayat Raj & RD Engineering Service.	04	01	-	27	32
07	AEE (Civil / Mech) in A.P Tribal Welfare Engineering Department.	-	-	-	-	-
08	AEE (Civil) in A.P Public Health & Municipal Engineering Department.	-	-	-	-	-
Total Fresh vacancies						165

Note: The details of vacancies viz., Community, Zone, State-Wide and Gender wise (General / Women) may be seen at Annexure-I

PARA-2: ELIGIBILITY:

- He / She is of sound health, active habits and free from any bodily defect or infirmity rendering him unfit for such service;
- His / Her character and antecedents are such as to qualify him for such service;
- He /She possesses the academic and other qualifications prescribed for the post: and
- He/ She is a citizen of India:
Provided that no candidate other than a citizen of India may be appointed except with the previous sanction of the State Government and except in accordance with such conditions and restrictions as they may be laid down. Such sanction shall be not be accorded unless the State Government are satisfied that sufficient number of citizens of India, who are qualified and suitable are not available.

PARA-3: EDUCATIONAL QUALIFICATIONS:

A candidate should possess the academic qualifications and experience including practical experience prescribed, if any, for the post on the date of the notification for direct recruitment issued by the concerned recruiting agency.

Post Code	Name of the Post	Educational Qualifications
01	Assistant Executive Engineers (Civil) in AP Rural Water Supply and sanitation Department.	Must possess a Bachelors Degree in Civil Engineering of a University in India established or incorporated by or under a Central Act, Provincial Act or a State Act or an Institution Recognized by the University Grants Commission or pass in Section (A) and (B) of AMIE Examination conducted by Institute of engineers in Civil. G.O.Ms.No.75, P R and R D (Estt-III), dated:06.04.2011.
02	Assistant Executive Engineers (Civil) in Roads & Buildings Engineering Service.	Must possess a Bachelor's Degree in Civil Engineering of a University in India established or incorporated by under a Central Act, Provincial Act or a State Act or an Institution Recognized by the University Grants Commission or an Equivalent qualification. As per G.O.Ms.No.230 TR & B (Ser-II) Dept., dated:02.11.2005 and G.O.Ms.No.171 TR & B (Ser-II) Dept., dated: 18.09.2006.
03	Assistant Executive Engineers (Electrical) in Roads & Buildings Engg. Service.	Must possess a Bachelors Degree in Electrical Engineering of a University in India established or incorporated by under a Central Act, Provincial Act or a State Act or an Institution Recognized by the University Grants Commission or an Equivalent qualification or a Pass in Section (A) and (B) of the Institution of Engineers in Electrical Engineering. As per G.O.Ms.No.103 TR, R & B (Ser-II) Dept., dated:22.05.1996.
04	Assistant Executive Engineers (Civil) in A.P. Water Resources Department.	Must possess a Bachelor's Degree in Civil Engineering of a University in India established or incorporated by or under a Central Act, Provincial Act or a State Act or an Institution Recognized by the University Grants Commission / All India Council for Technical Education or an Equivalent qualification. (As per AP Irrigation Engineering Service vide G.O.Ms.No.32, I & CAD Ser.IX Dept., dated:12.04.2010.
05	Assistant Executive Engineers (Mech) in A.P. Water Resources Department.	Must possess a Bachelor's Degree in Mechanical Engineering of a University in India established or incorporated by or under a Central Act, Provincial Act or a State Act or an Institution Recognized by the University Grants Commission / All India Council for Technical Education or an Equivalent qualification. (As per AP Irrigation Engineering Service vide G.O.Ms.No.32, I & CAD Ser.IX Dept., dated:12.04.2010.
06	Assistant Executive Engineers (Civil / Mech) in A.P Panchayat Raj Engineering Service.	Must possess a Bachelor's Degree in Civil or Mechanical Engineering of a University in India established or incorporated by or under Central Act, or a Provincial Act or a State Act or an Institution Recognized by the University Grants Commission or a Pass in Sections 'A' and 'B' of AMIE Examination conducted by Institute of Engineers in Civil or Mechanical or AMIE and B.Sc. (Engg.) of Ranchi University or an equivalent qualification. As per G.O.Ms.No.15, PR & RD (Estt-III) Dept., dated:08.01.1999
07	Assistant Executive Engineers (Civil / Mech) in A.P Tribal Welfare Engineering Department.	Must be a Graduate in Engineering (Civil / Mechanical) from any University in India established or incorporated by or under a Central Act, Provincial Act or a State Act or an Institution Recognized by the University Grants Commission or an Equivalent qualification. As per G.O.Ms.No.67, SW (V) dept., dated:12.04.1994.

08	Assistant Executive Engineers (Civil) in A.P Public Health & Municipal Engineering Department.	Must possess a Bachelor's Degree in Civil Engineering of a University in India established or incorporated by or under a Central Act, State Act or an Institution Recognized by the University Grants Commission / AICTE or a Pass in Sections 'A' and 'B' of AMIE (India) Examination in Civil Engineering. As per G.O.Ms.No.327, MA &UD (C) dept., dated:27.08.2012.
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PARA- 4 RESERVATIONS:

- 4.1. There will be reservations in direct recruitment in respect of Scheduled Tribes, Scheduled Castes, Backward Classes, Physically Challenged, Women and Meritorious Sports Person as per Rule 22 and 22 (A) of A.P. State and Subordinate Service Rules.
- 4.2. In the case of candidates who claim the benefit of reservation or relaxation from upper age limit on the basis of Caste/Tribe or Community the basic document of proof of Community will be the Certificate issued by the Revenue Authorities not below the rank of Tahsildar in the case of SC/ST and Non Creamy Layer Certificate issued by the Revenue Authorities in the case of Backward Classes. The list of Caste/Tribe/Community is as incorporated in Schedule-I of above Rules. The list is also appended at Annexure –IV. The candidates have to produce proof of the community claimed in their application at all stages of selection along with the certificates relating to Educational Qualifications and local status certificates etc.,. Subsequent claim of change of community will not be entertained.
- 4.3. The meritorious sportsman means a sportsman who has represented the State or the Country in a national or international competition or Universities in the Inter-University tournaments conducted by the Inter-University Boards or the State School team in the national sports/games for schools conducted by the All India School Games Federation in any of the games, sports, mentioned below; and any other games/sports as may be specified by the Government from time to time, in terms of Rule 2 (19) of AP State and Subordinate Service Rules.
- 4.4. The person with disability means a person suffering from not less than forty percent of any disability as certified by a medical authority except hearing Impairment. Hearing Impairment means loss of sixty decibels or more in the better ear in the conversational range of frequencies which corresponds to 85 dBs Hearing threshold on the audiogram in the better ear i.e., 85 dB hearing level in audiogram – 25 dB upper limit of normal hearing = 60 dB hearing loss as per provision under “person with Disabilities Act, 1995”.
- 4.5. Caste & Community: Community Certificate issued by the competent authority in terms of G.O. Ms No. 58, SW (J) Dept., dt.12/5/97 should be submitted at appropriate time. As per A.P. State and Subordinate Service Rules, Rule -2(28) Explanation: No person who professes a religion different from Hinduism shall be deemed a member of Schedule Caste. BCs, SCs & STs belonging to other States are not entitled for reservation.
- 4.6. If eligible disabled candidates of a particular category are not available, to fill up the carry forward vacancy, the same shall be filled-up by the method of interchanging as per G.O. Ms. No.23, department for Women, Children, Disabled and Senior Citizen (DW)Dept., Dated: 26.05.2011 and G.O.Ms.No.99, General Admn (Services -D) Dept., dated: 04.03.2013. Hence all the disabled categories are allowed to apply.
- 4.7. There shall be Reservation to Women horizontally to an extent of 33 1/3% as per G.O. Ms. No. 63, GA (Ser-D) Dept., dated:17.04.2018.
- 4.8. The reservation to meritorious sports persons will apply as per G.O.Ms.No.13, GA (Ser-D) Dept., dated:23.01.2018, and G.O.Ms.No.74, youth, advancement, Tourism and Culture (Sports) Dept., dated:09.08.2012.
- 4.9. Reservation to BC-E group will be subject to the adjudication of the litigation before the Hon'ble Courts including final orders in Civil Appeal No: (a) 2628-2637 of 2010 in SLP. No. 7388-7397 of 2010, dated. 25/03/2010 and orders from the Government.
- 4.10. The candidates claiming to be belonging to non-creamy layer of Backward Class have to obtain a Certificate in terms of G.O. Ms. No. 3, Backward Classes Welfare (C-2) Department, Dated 04.04.2006 read with G.O. Ms. No. 26 Backward Classes Welfare(C) Department, Dated 09.12.2013 regarding their exclusion from the Creamy Layer from the competent authority (Tahasildar) and produce the same at appropriate time of verification. In case of failure to produce the same on the day of verification, the Candidature will be considered against open competition even if he / she is otherwise eligible in all aspects.

PARA - 5: RESERVATION TO LOCAL CANDIDATES:

- 5.1. The specification of a post is determined by the concerned Department with reference to both vertical and horizontal reservations as well as local reservation. The reservations are specified through the indent by the concerned department and the general criteria with regard to reservations are given below.
- 5.2. Reservation to the Local candidates is applicable as provided in Article 371-D as per G.O.Ms.No.674, G.A (SPF- A) Department, dated.20.10.1975 and rules as amended from time to time and as in force on the date of notification. The candidates claiming reservation as Local candidates should obtain the required Study Certificate(s) (from IV Class to X Class or SSC) OR Residence Certificate in the proforma prescribed for those candidates who have not studied in any Educational Institutions as the case may be. The relevant certificates with authorized signature shall be produced as and when required.

PARA -6 DEFINITION OF LOCAL CANDIDATE:

- 6.1. A local candidate has been defined in G.O.Ms.No.674, General Administration (SPF-A) Department, dated:20.10.1975 "LOCAL CANDIDATE" as follows:

"Local Candidate:- (1) A candidate for direct recruitment to any post shall be regarded as a local candidate in relation to a local area.

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the post.

(i) "if he has studied in an educational institution or educational institutions in such local area for a period of not less than four consecutive academic years ending with the academic year in which he appeared or, as the case may be, first appeared for the relevant qualifying examination; or

(ii) where during the whole or any part of the four consecutive academic years ending with the academic year in which he appeared or as the case may be, first appeared for the relevant qualifying examination he has not studied in any educational institution, if he has resided in that local area for a period of not less than four years immediately preceding the date of commencement of the qualifying examination in which he appeared or as the case may be, first appeared.

(b) In cases where no minimum educational qualification has been prescribed for recruitment to the post, if he has resided in that local area for a period of not less than four years immediately proceeding the date on which the post is notified for recruitment. Explanations:- For the purpose of the paragraph.

(i) educational institution means a University or any educational institution recognized by the State Government, a University or other competent authority;

(ii) relevant qualifying examination in relation to a post means;

(a) the examination, a pass in which is the minimum educational qualification prescribed for the post;

(b) the Matriculation examination or an examination declared by the State Government to be equivalent to the Matriculation examination;

whichever is lower; and

(iii) In reckoning the consecutive academic years during which a candidate has studied, any period of interruption of his study by reason of his failure to pass any examination shall be disregarded.

(iv) the question whether any candidate for direct recruitment to any post has resided in any local area shall be determined with reference to the places where the candidate actually resided and not with reference to the residence of his parents or other guardian (Vide G.O.Ms.No.168, G.A. (SPF.A) Department, dated.10-3-77).

(2) A candidate for direct recruitment to any post who is not regarded as a local candidate under sub paragraph (1) in relation to any local area shall.

(a) in cases where a minimum educational qualification has been prescribed for recruitment to the post.

(i) if he has studied in educational institutions in the State for a period of not less than seven consecutive academic years ending with academic year in which he appeared or as the case may be, first appeared for the relevant qualifying examination, be regarded as a local candidate in relation to

(1) Such local area where he has studied for the maximum period out of the said period of seven years; or

(2) where the periods of his study in two or more local areas are equal, such local areas where he has studied last in such equal periods;

(ii) if during the whole or any part of the seven consecutive academic years ending with the academic years in which he appeared or as the case may be first appeared for the relevant qualifying examination, he has not studied in the educational institutions in any local area, but has resided in the State during the whole of the said period of seven years, be regarded as a local candidate in relation to

(1) such local area where he has resided for a maximum period out of the said period of seven years: or

(2) where the periods of his residence in two or more local areas are equal, such local areas where he has resided last in such equal periods;

(b) In cases where no minimum educational qualification has been prescribed for recruitment to the post, if he has resided in the State for a period of not less than seven years immediately preceding the date on which the post is notified for recruitment, be regarded as a local candidate in relation to

(i) such local area where he has resided for the maximum period out of the said period of seven years; or

(ii) where the periods of his residence is two or more local areas are equal such local area where he has resided last in such equal periods " .

(G.O.Ms.No.168, dated 10-3-1977)

6.2. Single certificate, whether of study or residence as stipulated in G.O.Ms.No.674, General Administration (SPF-A) Dept., dated:20.10.1975 would suffice for enabling the candidate to apply as a "LOCAL CANDIDATE".

6.3. Residence certificate will not be accepted, if a candidate has studied in any Educational Institution upto S.S.C. or equivalent examination. Such candidates have to produce study certificates invariably. The candidates, who acquired degree from open Universities directly without studying in any Educational Institution, only may submit residence certificate. Here Educational Institutions mean a recognized Institution by the Government / University/Competent authority.

6.4. Candidates are advised to refer provisions of the PRESIDENTIAL ORDER 1975 in this regard.

6.5. Candidates who migrate from Telangana to Andhra Pradesh between 2nd June, 2014 and 1st June, 2019 (in this case till date of notification) as per terms laid down in circular memo no.4136/SPF & MC/2015-5, Dated.20.11.2017 of Government of Andhra Pradesh shall obtain the Local Status Certificate and produce at the time of verification.

6.6. The composition of Districts in each zone is as hereunder:

Zone-I: Srikakulam, Vizianagaram and Visakhapatnam. (SKM, VZM,VSP,)

Zone-II: East Godavari, West Godavari and Krishna. (EG, WG, KST)

Zone-III: Guntur, Prakasam and Nellore. (GNT, PKM, NLR)

Zone-IV: Chittoor, Kadapa, Anantapur and Kurnool. (CTR, CDP, ATP, KNL)

PARA- 7 AGE:

7.1. No person shall be eligible for direct recruitment if he/she is less than 18 years of age and if he / she is more than 42 years of age as on 01/07/2018 as per G.O.Ms.No.132,GA (Ser-A) Dept., dated:15.10.2018. Candidates should not be born earlier than 2nd July 1976 and not later than 1st July 2000.

7.2. Age Relaxation is applicable to the categories as detailed below:

S. No.	Category of candidates	Relaxation of age permissible
1.	SC/ST and BCs	5 Years
2.	Physically Handicapped persons	10 Years
3.	Ex-Service men	Shall be allowed to deduct from his age a period of 3 years in addition to the length of service rendered by him in the armed forces / NCC.
4.	N.C.C. (who have worked as Instructor in N.C.C.)	
5.	A.P. State Government Employees (Employees of APSEB, APSRTC, Corporations, Municipalities etc. are not eligible).	5 Years based on the length of regular service.

6.	Retrenched temporary employees in the State Census Department with a minimum service of 6 months.	3 Years
EXPLANATION: Provided that the persons referred to at Sl.Nos.3 & 4 above shall, after making the deductions referred to in sub Rule 12 (c) (i) & (ii) of A.P. State and Subordinate Service Rules not exceed the Maximum age limit prescribed for the post. The age relaxation for Ex-Servicemen is applicable for those who have been released from Armed Forces other than by way of dismissal or discharge on account of misconduct or inefficiency.		

PARA - 8 HOW TO APPLY:

STEP-I: Candidates applying for the first time for any notification has to first fill the OTPR application carefully to obtain OTPR ID. While filling the OTPR, the candidate has to ensure that the particulars are filled correctly. The Commission bears no responsibility for the mistakes, if any, made by the candidates. If candidates choose to modify they may do so by clicking the modify OTPR make the modification, save them and proceed to STEP-II (If candidates have already registered and have the OTPR ID, number then he/she can proceed to STEP-II.)

STEP-II: The Applicant has to Login in the Commission's website with the User Name (OTPR ID) and the Password set by Candidate. After Login, the Applicant has to click on the "Online Application Submission" present in the bottom right corner of the Commission's website.

PAYMENT PROCESS: The Applicant now has to click on the payment link against the Notification Number that he wants to apply. The Basic details required for calculation of the Fee and Age relaxation will be prepopulated from the OTPR data. The Applicant has to verify all the details that are displayed. Once the Payment form is submitted, the respective details (Used for Calculation of fee and Age relaxation) will not be altered in any stage of application processing. Hence if any details are to be changed, applicant should use the Modify OTPR link, modify the details, save it and again click on application payment link.

STEP-III: After checking all the data and ensuring that the data is correct the applicant has to fill application specific data such as Local/Non Local status, White card details etc., which are also used to calculate the Fee. Once all the data is filled appropriately, the applicant has to submit the payment form. On successful submission, the payment reference ID is generated and is displayed on the screen. By clicking "OK" the Applicant is shown the various payment options where he/she can select any one among them and complete the payment process as given on the screen.

STEP-IV: Once the payment is successful, payment reference ID is generated. Candidates can note the payment reference ID for future correspondence. Thereafter the applicant is directed to the application form. Applicant should provide the payment reference Id generated along with the other details required for filing the application form (other fields like OTPR ID and fees relaxations details will be prepopulated from the data submitted in the payment form for respective notification). The Applicant should check the data displayed thoroughly and should fill the application specific fields like Qualification details, Post preferences, examination centre etc., carefully and submit the Application form. Once the Application is submitted successfully then Application Receipt is generated. The Applicant is requested to print and save the application receipt for future reference/correspondence.

NOTE: Applicant shall note that the data displayed from OTPR at the time of submitting the application will be considered for the purpose of this notification only. Any changes made by the applicant to OTPR data at a later date shall not be considered for the notification on hand.

STEP-V: In any case if the payment process is not submitted successfully, then the applicant should start the fresh payment process as mentioned in STEP-II.

STEP-VI: Once the application is submitted successfully, correction in application form will be enabled. The corrections can be made in the application form itself. Fields which affects the Name, fee and age relaxations are not enabled for corrections.

NOTE:

A. The Commission is not responsible, for any omissions by the applicant in bio-data particulars while submitting the application form online. The applicants are therefore, advised to strictly follow the instructions given in the user guide before submitting the application.

B. All the candidates are requested to submit their application with correct data. It is noticed that some of the candidates are requesting for change in the data, after submission of the application. It is informed that such requests shall be allowed on

payment of Rs.100/- (Rupees Hundred Only) for each correction. However changes are not allowed for Name, Fee and age relaxation. No manual application for corrections shall be entertained. No changes will be allowed after 15 days of last date of applications.

C. The particulars furnished by the applicant in the Application Form will be taken as final. Candidates should, therefore, be very careful in Uploading / Submitting the Application Form online.

D. Incomplete/incorrect application form will be summarily rejected. The information if any furnished by the candidate subsequently will not be entertained by the Commission under any circumstances. Applicants should be careful in filling-up the application form and submission. If any lapse is detected during the scrutiny, the candidature will be rejected even though he/she comes to the final stage of recruitment process or even at a later stage and also liable for punishment as per Para 16.1 of this notification.

E. Before Uploading/Submission Application Form, the Candidates should carefully ensure his/her eligibility for this examination. No relevant column of the application form should be left blank; otherwise application form will not be accepted.

PARA - 9: (a) FEE:

- 9.1. Applicant must pay Rs. 250/- (Rupees Two Hundred and Fifty Only) towards application processing fee and Rs 120/- (Rupees One Hundred Twenty only) towards Examination Fee.
- 9.2. However, the following categories of candidates are exempted from payment of examination fee Rs.120/- only.
 - i) SC, ST, BC, PH & Ex-Service Men.
 - ii) Families having Household Supply White Card issued by Civil Supplies Department, A.P. Government. (Residents of Andhra Pradesh)
 - iii) Un-employed youth as per G.O.Ms.No.439, G.A (Ser- A) Dept., dated: 18/10/1996 should submit declaration at an appropriate time to the Commission.
 - iv) Applicants belonging to the categories mentioned above (except Physically Handicapped Persons & Ex-Service Men) hailing from other States are not entitled for exemption from payment of fee and not entitled for claiming any kind of reservation.
 - v) Candidates belonging to other States shall pay the prescribed fee of Rs.120/- (Rupees One Hundred and Twenty only), along with processing fee of Rs. 250/- (Rupees Two Hundred and Fifty only) through different channels as indicated at Para-8. Otherwise such applications will not be considered and no correspondence on this will be entertained.

9.3. b) MODE OF PAYMENT OF FEE:

- i) The Fee mentioned in the above paragraph is to be paid online using Payment Gateway using Net Banking/ Credit card / Debit Card. The list of Banks providing service for the purpose of online remittance of Fee will be available on the Website.
- ii) The fee once remitted shall not be refunded or adjusted under any circumstances. Failure to pay the examination fee and application fee (in non-exempt case) will entail total rejection of application.
- iii) IPOs / Demand Drafts are not accepted.
- iv) In case of corrections Rs.100/- per correction will be charged. However changes are not allowed for Name, Fee and age relaxation.

PARA-10: SCHEME OF EXAMINATION:-

The Scheme & Syllabus for the examination has been shown in Annexure-II. For the purpose of writing of subject paper III. The candidate has to choose the branch of Engineering related to the subject of study in the Degree.

PARA - 11: CENTRES FOR THE OFF-LINE (SCREENING) AND ON-LINE (MAIN) EXAMINATIONS:

The applicant may choose the Test centre with three preferences. However the Commission reserves the right to allot the applicant to any centre of examination depending on the availability of the resources like centres / systems.

PARA – 12 RESOLUTION OF DISPUTES RELATED TO QUESTION PAPER, ANSWER KEY AND OTHER MATTERS

- 12.1. The Commission would publish the key on its website after conduct of the examination. Any objections with regard to the key and any other matter shall be filed within one week after publication of the key in the prescribed proforma available in the website.
- 12.2. The objections received in the prescribed proforma and within due date will be referred to expert Committee for opinion and to take appropriate decision thereon by the Commission. As per decision of the Commission a revised key will be hosted and further objections only in respect of keys that are revised would be called for a period of three working days from the date of publication of revised key. No further objections on original key will be entertained at this stage. The matter will again be referred to experts, taking into consideration the opinion of expert Committee and the final key would be hosted on website based on the decision of the Commission.
- 12.3. The objections if any would be examined and the decision of the Commission in this regard shall be final. Any objection filed after expiry of specified time from the date of publication of key / revised key would not be entertained.

PARA -13 NOTE ON IMPORTANT LEGAL PROVISIONS GOVERNING THE RECRUITMENT PROCESS:

- 13.1. Vacancies: The recruitment will be made to the vacancies notified only. There shall be no waiting list as per G.O. Ms. No. 81, General Administration (Ser. A) Department, Dated 22/02/1997, G.O.Ms.No.544, General Administration (Ser. A) Department, Dated:04.12.1998 and Rule 6 of APPSC Rules of procedure. In any case, no cognisance will be taken by Commission of any vacancies arising or reported after the completion of the selection and recruitment process or the last date as decided by the Commission as far as this Notification is concerned, and these will be further dealt with as per G.O. & Rule cited above.
- 13.2. The recruitment will be processed as per this notification and as per the Rules and Instructions issued by the Government and also as decided by the Commission from time to time. A.P. RWS & S Engineering Services Rules issued in G.O.Ms.No.219, PR & RD (Estt-II), Dt. 11/06/2008, G.O.Ms.No.75, P R and R D (Estt-III), dated:06.04.2011, R & B Engineering Service Rules 1996, G.O.MS.NO.103, TR&B (Estt-III), Dt. 22/05/1996, G.O. Ms. No. 230 TR&B Dept., Dt. 02/11/2005, G.O.Ms.No.171 TR & B (Ser-II) Dept., dated: 18.09.2006, A.P. Irrigation Engineering Service Rules 2010 G.O.Ms.No.32, I & CAD (Ser.IX) Dept., dated:12.04.2010, A.P. Panchayat Raj Engineering Service Rules. G.O.Ms.No.15, PR & RD (Estt-III) Dept., dated:08.01.1999, A.P Tribal Welfare Engineering Service Rules , G.O.Ms.No.67, SW (V) dept., dated:12.04.1994, A.P PH & ME Service Rules 1965 G.O. Ms. No. 168, Municipal Administration, Dt. 20/02/1965 and Special Rules / Adhoc Rules Governing the recruitment and other related GOs, Rules etc., are applicable.
- 13.3. Rules: The various conditions and criteria prescribed herein are governed by the A.P. State and Subordinate Service Rules, 1996 read with the relevant Special Rules applicable to any particular service in the departments. Any guidelines or clarification is based on the said Rules, and, in case of any necessity, any matter will be processed as per the relevant General and Special Rules as in force.
- 13.4. The Commission is empowered under the provisions of Article 315 and 320 of the Constitution of India read with relevant laws, rules, regulations and executive instructions and all other enabling legal provisions in this regard to conduct examination for appointment to the posts notified herein, duly following the principle of order of merit as per Rule 3(vi) of the APPSC Rules of Procedure read with relevant statutory provisions and ensuring that the whole recruitment and selection process is carried out with utmost regard to secrecy and confidentiality so as to ensure that the principle of merit is scrupulously followed.
- 13.5. Zonal/Local: In terms of Para 4 of the G.O., A.P. Public Employment (Organization of Local Cadres and Regulation of Direct Recruitment) Order, 1975 (G.O.Ms.No.674, G.A. (SPF-A) Dept., dated: 20/10/1975) read with G.O.Ms.No.124, General Administration (SPF-A) Department, dated: 07/03/2002, " The Provisional list shall be divided into two parts. The first part shall comprise 40% of the posts consisting of combined merit lists of locals as well as non-locals and the remaining second part shall comprise the balance 60% of the posts consisting of locals only and the posts shall be filled duly following the rule of reservation" This clause is applicable for all post codes except PC. No. 03 which is a State level post covered under GSR 526-E of G.O. Ms. No. 675, Dated: 20/10/1975.
- 13.6. Scheme is prescribed as per G.O Ms. No.201, Finance (HR-I Plg, & Policy) Dept., dated:21.12.2017.
- 13.7. The persons already in Government Service/ Autonomous bodies/ Government aided institutions etc., whether in permanent or temporary capacity or as work charged employees are however required to inform, in writing, to their Head of Office/ Department that they have applied for this recruitment.

- 13.8. A candidate shall be disqualified for appointment, if he himself or through relations or friends or any others has canvassed or endeavored to enlist for his candidature, extraneous support, whether from official or non-official sources for appointment to this service.
- 13.9. Evaluation of various physical disabilities and procedure for certification will be as per orders contained in G.O.Ms. No. 31, WD, CW & DW (DW) Dept., dated 01.12.2009.
- 13.10. The Candidates who have obtained Degrees through Open Universities / Distance Education mode are required to have recognition by the Distance Education Council, Government of India. Unless such Degrees have been recognised by the D.E.C. they will not be accepted for purpose of Educational Qualification. The onus, in case of doubt, of Proof of recognition by the D.E.C. that their Degrees / Universities have been recognised, rests with the candidate. Candidates may also refer G.O.R.T.No.143, Higher Education (EC) Dept., Dated:11.07.2018 and the Supreme Court judgment dated:03.11.2017 in this connection.

PARA- 14 Please read the following Annexures appended to the notification before filling the application form

Annexure- I- Break up of vacancies
 Annexure- II- Scheme & Syllabus
 Annexure- III- Instructions to candidates
 Annexure- IV- LIST OF SC / ST / BC's

PARA-15: PROCEDURE OF SELECTION:

- 15.1. Appearance in all the papers of computer based examination / Main examination is compulsory. Absence in any of the papers will automatically render the disqualification of the candidature.
- 15.2. As per G.O.Ms.No.5 General Administration (Ser-A) Dept., dated:05.01.2018 "Government here by permit the Andhra Pradesh Public Service Commission to pick up candidates who obtains such minimum qualifying marks in Screening Test / Preliminary Examination as may be fixed by the Commission at its discretion shall be admitted to the Main Examination in all direct recruitment examinations. The APPSC is further permitted to select candidates belonging to the Scheduled Caste or Scheduled Tribes or Backward classes or Physically Challenged candidates for Main Examination by applying relaxed standards in the Screening Test / Preliminary Examination, if the Commission is of the opinion that sufficient number of candidates from these communities are not likely to be eligible for main examination on the basis of general standard in Screening Test / Preliminary Examination in order to fill up the vacancies reserved for them". Candidates who will come up for selection due to relaxed standards shall be considered against reserved category only.
- 15.3. The selection of candidates for appointment to the posts shall be based on the merit in the computer based examination, to be held as per the scheme of examination enunciated at para 10 above.
- 15.4. The minimum qualifying marks for consideration of a candidate to the selection process are 40% for OCs, 35% for BCs, and 30% for SCs, STs and PHs or as per rules. In the event of Schedule Caste & Schedule Tribe candidates not coming up for selection with the existing minimum prescribed for selection in the competitive examination conducted by the APPSC their selection shall be considered on the basis of rank with reference to their performance in the written and / or oral competitive examination irrespective of the marks secured.
 N.B.: Mere securing of minimum qualifying marks does not confer any right to the candidate for being considered to the selection.
- 15.5. Where the candidates get equal number of marks in the screening test if two or more candidates get equal total number of marks, those candidates shall be bracketed. Candidates within the same bracket shall then be ranked 1, 2, 3 etc., according to age i.e., oldest being considered for admission. In case there is tie in age, the person who possesses educational qualification at earlier date would be considered.
- 15.6. With regard to situation where there is deletion of questions, if any, from any paper, scaling (proportionate increase) would be done for that particulars part of the paper to the maximum marks prescribed for the paper and the marks would be rounded off to 2 decimals to determine the merit of the candidate.
- 15.7. While the Commission calls for preference of candidates in respect of posts, zones etc., in the application form, it is hereby clarified that the said preferences are only indicative for being considered to the extent possible but not binding or limiting the Commission's powers under Article 315 and 320 of the Constitution of India. Therefore, the Commission

has the power to assign a candidate to any of the notified posts for which he is considered to be qualified and eligible, subject to fulfilling the selection criterion. Mere claim of preference for any Zone for allotment against vacancy does not confer a right to selection for that Zone in particular or any Zone in general.

- 15.8. The appointment of selected candidates will be subject to their being found medically fit in the appropriate medical classification, and if he/she is of sound health, active habits and free from any bodily defect or infirmity.
- 15.9. ANSWER KEY AND MARKS: Answer key would be published on the website and marks of each candidate are also displayed on website. No separate memorandum of marks would be issued.

PARA-16: DEBARMENT:

- 16.1. Candidates should make sure of their eligibility to the post applied for and that the declaration made by them in the format of application regarding their eligibility is correct in all respects. Any candidate **furnishing in-correct information or making false declaration regarding his/her eligibility at any stage or suppressing any information** is liable TO BE DEBARRED UPTO FIVE YEARS FROM APPEARING FOR ANY OF THE EXAMINATIONS CONDUCTED BY THE COMMISSION, and summary rejection of their candidature for this recruitment.
- 16.2. The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked **if malpractice and unfair means are noticed at any stage** of the recruitment. Further candidates shall be liable for penalty as per G.O.Ms.No.385,G.A.(Ser. A) Dept., Dt.18/10/2016. The Chief Superintendent of the examination centre is authorized to take decision in case of malpractice or usage of unfair means or creation of disturbance or use of physical force by any candidate and report the matter to the competent authority as well as register a police case.
- 16.3. The Commission is vested with the Constitutional duty of conducting recruitment and selection as per rules duly maintaining utmost secrecy and confidentiality in this process and any attempt by anyone causing or likely to cause breach of this constitutional duty in such manner or by such action as to violate or likely to violate the fair practices followed and ensured by the Commission will be sufficient cause for rendering such questionable means as ground for debarment and penal consequences as per law and rules as per decision of the Commission.
- 16.4. Any candidate found **impersonating or procuring impersonation by any person** or resorting to any other irregular or improper means in connection with his / her candidature for selection or obtaining support of candidature by any means, such a candidate may in addition to rendering himself/ herself liable to criminal prosecution, be liable to be debarred permanently from any exam or selection held by the Service Commissions in the country.
- 16.5. **ELECTRONIC GADGETS BANNED:**
 - (a) The use of any mobile (even in switched off mode), pager, scientific calculator or any electronic equipment or programmable device or storage media like pen drive, smart watches etc., or camera or blue tooth devices or any other equipment or related accessories either in working or switched off mode capable of being used as a communication device during the examination is strictly prohibited. Any infringement of these instructions shall entail disciplinary action including ban from future examinations.
 - (b) Candidates are advised, in their own interest, not to bring any of the banned items including mobile phones/ pagers to the venue of the examination, as arrangement for safe – keeping cannot be assured.

PARA-17: COMMISSION'S DECISION TO BE FINAL:

The decision of the Commission in all aspects and all respects pertaining to the application and its acceptance or rejection as the case may be, conduct of examination and at all consequent stages culminating in the selection or otherwise of any candidate shall be final in all respects and binding on all concerned, under the powers vested with it under Article 315 and 320 of the Constitution of India. Commission also reserves its right to alter and modify the terms and conditions laid down in the notification for conducting the various stages up to selection, duly intimating details thereof to all concerned, as warranted by any unforeseen circumstances arising during the course of this process, or as deemed necessary by the Commission at any stage.

SC	-	-	-	-	-	-	-	-	-	-	-	01	01	-	-	-	01	-	-	01	02
ST	-	-	-	-	-	-	-	-	-	-	-	01	01	-	-	-	01	-	-	01	02
VH	-	01	-	-	-	01	-	-	-	-	-	01	-	01	-	-	-	03	-	01	04
HH	-	-	01	-	01	-	-	-	-	-	-	-	-	-	01	-	01	-	02	-	03
OH	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	01	-	-	01	01	02
Ex-Ser. men	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sports Quota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	01	02	02	03	02	02	06	01	01	-	01	04	03	03	01	01	07	07	10	09	33
G.Total	08				11				06				08				33				

P.C.NO.3 ASSISTANT EXECUTIVE ENGINEER IN ROADS & BUILDING (ELECTRICAL) DEPARTMENT

(electrical- State wide)		
Community	General	Woman
OC	02	-
BC-A	01	-
BC-B	-	-
BC-C	-	-
BC-D	-	-
BC-E	-	-
SC	-	-
ST	-	-
PH(HH)	01	-
Ex-Ser.men	-	-
Sports Quota	-	-
Total	04	-

P.C.No.4 ASSISTANT EXECUTIVE ENGINEER IN WATER RESOURCE (CIVIL) DEPARTMENT

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	02	-	01	-	-	-	-	-	02	01	-	-	03		01	-	07	01	02	-	10
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	-	-	01
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	01	-	-	-	01	-	-	-	-	-	-	-	02	-	-	-	02
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	-	-	02	02
VH	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	01
HH	-	-	-	01	-	-	-	-	-	-	01	-	-	-	01	-	-	-	02	01	03
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ex-Ser.men	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
Sports Quota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
TOTAL	02	-	01	01	01	-	-	01	03	01	01	01	04	-	02	01	10	01	04	04	19
G.Total	04				02				06				07				19				

P.C.No.5 ASSISTANT EXECUTIVE ENGINEER IN WATER RESOURCE (MECHANICAL) DEPARTMENT

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ex-Ser.men	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sports Quota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	02	-	-	-	-	-	02
Grand Total	00				00				00				02				02				02

P.C.No.6 ASSISTANT EXECUTIVE ENGINEER IN PANCHAYATI RAJ (CIVIL/MECHANICAL) DEPARTMENT

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL		
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL				
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W			
OC	-	-	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	01	-	01
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	01	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	02	-	02
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ex-Ser.men	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-
Sports Quota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-
TOTAL	-	-	01	-	-	-	-	-	-	-	02	-	-	-	-	-	-	-	-	-	-	-	03
G.Total	01				00				02				00				03				03		

P.C.No.7 ASSISTANT EXECUTIVE ENGINEER IN TRIBAL WELFARE (CIVIL/MECHANICAL) DEPARTMENT

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL	
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL			
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W		
OC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BC-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BC-B	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01	
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	-	01
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	01	01
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ex-Ser.men	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sports Quota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	01	01	-	-	02	01	03
G.Total	00				01				00				02				03					

P.C.NO.8 ASSISTANT EXECUTIVE ENGINEER IN PUBLIC HEALTH & MUNICIPAL ENGINEERING (CIVIL) DEPARTMENT

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAN D TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	-	-	-	-	-	-	-	-	01	-	-	-	-	-	-	-	01	-	-	-	01
BC-A	-	-	-	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	01
BC-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BC-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ex-Ser.men	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sports Quota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	02
G. Total	00				01				01				00				02				

II. FRESH VACANCIES

P.C.No.1 ASSISTANT EXECUTIVE ENGINEER IN RURAL WATER SUPPLY & SANITATION (CIVIL) DEPARTMENT

COMMUNITY	ZONE-1				ZONE-2				ZONE-3				ZONE- 4				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
OC	03	-	04	02	01	-	03	01	01	-	-	01	04	-	04	03	09	-	11	07	27
BC-A	-	01	01	-	-	-	-	-	-	-	-	-	-	01	01	-	-	02	02	-	04
BC-B	-	01	-	-	-	-	-	01	-	-	-	-	-	01	01	-	-	02	01	01	04
BC-C	-	-	01	-	-	-	01	-	-	-	-	-	-	-	-	01	-	-	02	01	03
BC-D	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	02	02
BC-E	-	-	-	01	-	-	-	-	-	-	-	-	-	-	-	01	-	-	-	02	02
SC	01	-	01	01	01	-	-	-	-	-	-	01	01	01	01	01	03	01	02	03	09
ST	-	01	-	-	-	01	-	-	-	-	-	-	-	01	01	-	-	03	01	-	04
VH	01	-	-	-	01	-	-	-	-	-	-	-	01	-	-	-	03	-	-	-	03
HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ex-Ser.men	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
Sports Quota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
TOTAL	05	03	07	05	03	01	04	02	01	-	-	02	06	04	08	07	15	08	19	16	58
G.Total	20				10				03				25				58				58

Sports Quota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL	01	-	01	02	-	-	01	-	-	-	-	-	05	05	14	03	06	05	16	05	32
G.Total	04				01				00				27				32				

P.C.No.7 ASSISTANT EXECUTIVE ENGINEER IN TRIBAL WELFARE (CIVIL/MECHANICAL) DEPARTMENT

-Nil -

P.C.NO.8 ASSISTANT EXECUTIVE ENGINEER IN PUBLIC HEALTH & MUNICIPAL ENGINEERING (CIVIL) DEPARTMENT

-Nil -

ROSTER POINTS

P.C.No.1. ASSISTANT EXECUTIVE ENGINEER IN RURAL WATER SUPPLY & SANITATION (CIVIL) DEPARTMENT

CARRY FORWARD VACANCIES

Zone –I

Community	General		Woman	
	Open zone	L	Open zone	L
OC	04(48,53, 61,67)	01 (88)	03 (55,59,65)	-
BC-A	-	-	-	-
BC-B	01 (60)	01 (95)	-	-
BC-C				
BC-D	-	01 (89)	-	-
BC-E	-	03(44,69,94)	-	01 (19)
SC	-	01 (72)	-	01 (02)
ST	-	01 (83)	01 (58)	-
PH (VH)	-	-	-	-
Total	05	08	04	02
Grand total 19				

FRESH VACANCIES

S.No	Roster Point	Category
1	103	OC (OZ)
2	104	BC- A (W) (OZ)
3	105	OC (OZ)
4	106	VH (G) (OZ)
5	107	SC (OZ)
6	108	ST (W) (OZ)
7	109	OC (OZ)
8	110	BC- B (W) (OZ)
9	111	OC (L)
10	112	OC (W) (L)
11	113	OC (L)
12	114	BC- C (L)
13	115	OC (L)
14	116	SC (L)
15	117	OC (W) (L)
16	118	BC- D (W) (L)
17	119	BC- E (W) (L)
18	120	BC-A (L)
19	121	OC (L)
20	122	SC (W) (L)
Grand total 20		

CARRY FORWARD VACANCIES

Zone –II

Community	General		Woman	
	Open zone	L	Open zone	L
OC	01 (26)	03 (73,98,100)	-	-
BC-A	-	-	-	-
BC-B	-	-	01 (10)	
BC-C	-	-	-	-
BC-D	-	-	-	-
BC-E	-	-	01 (19)	-
SC	-	-		
ST	-	-	01 (08)	01(58)
PH	-	-	-	-
Total	01	03	03	01
Grand total 08				

FRESH VACANCIES

S.No	Roster Point	Category
1	106	VH (G) (OZ)
2	107	SC (OZ)
3	108	ST(W) (OZ)
4	109	OC (OZ)
5	110	BC- B (W) (L)
6	111	OC (L)
7	112	OC (W) (L)
8	113	OC (L)
9	114	BC- C (L)
10	115	OC (L)
Grand total 10		

CARRY FORWARD VACANCIES

Zone –III

Community	General		Woman	
	Open zone	L	Open zone	L
OC	03 (48,51,53)	02 (5,13)	01 (65)	-
BC-A	01 (54)	01 (20)		
BC-B	-	02 (85,95)	-	01 (81)
BC-C	-	01 (14)	-	-
BC-D	-	-	-	-
BC-E	-	01 (19)	-	-
SC	-	-	01 (66)	-
ST	-	-	01 (58)	01 (08)
PH (VH)	-	01 (06)	-	-
Total	04	08	03	02
Grand total 17				

FRESH VACANCIES

S.No	Roster Point	Category
1	121	OC (OZ)
2	122	SC (W) (L)
3	123	OC (W) (L)
Grand total 03		

CARRY FORWARD VACANCIES

Zone –IV

Community	General		Woman	
	Open zone	L	Open zone	L
OC	04 (46,76,80,88)	06(37,46,63,73,88, 98)	04(12,55,96,06)	02 (38,96)
BC-A	-	02 (29,29)	-	-
BC-B	02 (85,95)		01 (99)	01 (81)
BC-C	-	-	-	-
BC-D	01 (93)	01 (89)	01 (64)	-
BC-E	-	-	-	-
SC	01 (97)		01 (47)	
ST	-	-	02 (08,58)	02 (08,58)
PH (VH)	-	-	01 (06)	-
PH (HH)	-	01 (31)	-	01 (31)
Total	08	10	10	06
Grand total 34				

FRESH VACANCIES

S.No	Roster Point	Category
1	202	SC (W) (OZ)
2	203	OC (OZ)
3	204	BC- A (W) (OZ)
4	205	OC (OZ)
5	206	VH (G) (OZ)
6	207	SC (OZ)
7	208	ST(W) (OZ)
8	209	OC (OZ)
9	210	BC- B (W) (OZ)
10	211	OC (OZ)
11	212	OC (W) (L)
12	213	OC (L)
13	214	BC-C (W) (L)
14	215	OC (L)
15	216	SC (L)
16	217	OC (W) (L)
17	218	BC- D (W) (L)
18	219	BC- E (W) (L)
19	220	BC-A (L)
20	221	OC (L)
21	222	SC (W) (L)
22	223	OC (W) (L)
23	224	BC- B (L)
24	225	ST (L)
25	226	OC (L)
Grand total		25

P.C.No.2 ASSISTANT EXECUTIVE ENGINEER IN ROADS & BUILDING (CIVIL) DEPARTMENT

CARRY FORWARD VACANCIES

Zone –I

Community	General		Woman	
	Open zone	L	Open zone	L
OC	01 (05)	-	-	02 (17,30)
BC-A	-	-	-	-
BC-B	-	01(24)	01(99)	-
BC-C	-	-	-	-
BC-D	-	-	-	-
BC-E	-	-	-	01 (19)
SC	-	-	-	-
ST	-	-	-	-
PH (VH)	-	-	01 (06)	-
PH (HH)	-	01(31)	-	-
Total	01	02	02	03
Grand total		08		

FRESH VACANICES

S.No	Roster Point	Category
1	36	OC (OZ)
2	37	OC (OZ)
3	38	OC (W) (L)
4	39	BC- D (L)
5	40	OC (L)
6	41	SC (L)
7	42	OC (L)
Grand total 07		

CARRY FORWARD VACANCIES
Zone –II

Community	General		Woman	
	Open zone	L	Open zone	L
OC	01(32)	04 (92,13, 40,57,)	01 (38)	01(50)
BC-A	-	-	-	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	-	-	-	-
BC-E	-	01 (44)	-	-
SC	-	-	-	-
ST	-	-	-	-
PH (HH)	01(31)	-	-	-
PH (OH)	-	01(56)	-	-
PH (VH)	-	-	01(06)	-
Total	02	06	02	01
Grand total 11				

FRESH VACANCIES

S.No	Roster Point	Category
1	60	BC- B (OZ)
2	61	OC (OZ)
3	62	SC (OZ)
4	63	OC (L)
5	64	BC- D (W) (L)
6	65	OC (W) (L)
7	66	SC (W) (L)
8	67	OC (L)
9	68	BC- D (L)
Grand total 09		

CARRY FORWARD VACANCIES
Zone –III

Community	General		Woman	
	Open zone	L	Open zone	L
OC	-	01 (15)	-	-
BC-A	-	-	-	-
BC-B	-	-	-	01 (81)
BC-C	-	-	-	-
BC-D	01 (93)	-	-	-
BC-E	-	-	-	-
SC	-	-	-	01 (22)
ST	-	-	-	01 (08)
PH (VH)	-	-	-	01 (06)
Total	01	01		04
Grand total 06				

FRESH VACANCIES

S.No	Roster Point	Category
1	25	ST (OZ)
2	26	OC (L)
3	27	SC (L)
4	28	OC (L)
Grand total 04		

CARRY FORWARD VACANCIES
Zone –IV

Community	General		Woman	
	Open zone	L	Open zone	L
OC	-	-	02 (90,12)	
BC-A	-	-	-	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	01 (89)	-	-	-
BC-E		-	-	-
SC	01 (27)	-	-	-
ST	01 (25)	-	-	-
PH (HH)	-	01 (31)	-	-
PH (OH)	-	-	-	01 (56)
PH (VH)	-	-	01 (06)	
Total	03	01	03	01
Grand total 08				

FRESH VACANCIES

S.No	Roster Point	Category
1	268	BC- D (OZ)
2	269	BC- E (OZ)
3	270	BC- A (L)
4	271	OC (W) (L)
5	272	SC (L)
Grand total 05		

P.C.NO.3 ASSISTANT EXECUTIVE ENGINEER IN ROADS & BUILDING (ELECTRICAL) DEPARTMENT

CARRY FORWARD VACANCIES (ELECTRICAL- STATE WIDE)

Community	General	Woman
	-	-
OC	02 (11,32)	-
BC-A	01 (29)	
BC-B	-	-
BC-C	-	-
BC-D	-	-
BC-E	-	-
SC	-	-
ST	-	-
PH(HH)	01 (31)	-
Total	04	-
Grand Total 04		

P.C.No.4 ASSISTANT EXECUTIVE ENGINEER IN WATER RESOURCE (CIVIL) DEPARTMENT

**CARRY FORWARD VACANCIES
Zone –I**

Community	General		Woman	
	Open zone	L	Open zone	L
OC	02 (48,98)	01 (32)	-	-
BC-A	-	-	-	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	-	-	-	-
BC-E	-	-	-	-
SC	-	-	-	-
ST	-	-	-	-
PH (HH)	-	-	-	01(31)
Total	02	01	-	01
Grand Total 04				

FRESH VACANCIES

S.No	Roster Point	Category
1	133	ST (OZ)
2	134	OC (W) (OZ)
3	135	BC- B (OZ)
4	136	OC (L)
5	137	OC (L)
6	138	OC (W) (L)
7	139	BC- D (L)
8	140	OC (L)
Grand total 08		

CARRY FORWARD VACANCIES

Zone –II

Community	General		Woman	
	Open zone	L	Open zone	L
OC	-	-	-	-
BC-A	-	-	-	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	01(89)	-	-	-
BC-E	-	-	-	-
SC	-	-	-	-
ST	-	-	-	01(08)
PH	-	-	-	-
Total	01	-	-	01
Grand Total 02				

FRESH VACANCIES

S.No	Roster Point	Category	
1	226	OC	(Open zone)
2	227	SC	(Open zone)
3	228	OC	(Open zone)
4	229	BC- A	(L)
5	230	OC (W)	(L)
6	231	HH	(L)
7	232	OC	(L)
8	233	ST	(L)
9	234	OC (W)	(L)
Grand total 09			

CARRY FORWARD VACANCIES

Zone –III

Community	General		Woman	
	Open zone	L	Open zone	L
OC	02 (88,98)	-	01 (34)	-
BC-A	-	-	-	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	01(93)	-	-	-
BC-E	-	-	-	-
SC	-	-	-	-
ST	-	-	-	-
PH(HH)	-	01(31)	-	-
PH(VH)	-	-	-	01 (06)
Total	03	01	01	01
Grand Total 06				

FRESH VACANCIES

S.No	Roster Point	Category
1	52	SC (OZ)
2	53	OC (OZ)
3	54	BC- A (OZ)
4	55	OC (W) (OZ)
5	56	OH (L)
6	57	OC (L)
7	58	ST (W) (L)
8	59	OC (W) (L)
9	60	BC- B (L)
10	61	OC (L)
11	62	SC (L)
Grand total 11		

CARRY FORWARD VACANCIES
Zone –IV

Community	General		Woman	
	Open zone	L	Open zone	L
OC	03(03,61,100)	01(11)	-	-
BC-A	-	-	-	-
BC-B	01 (74)	-	-	-
BC-C	-	-	-	-
BC-D	-	-	-	-
BC-E	-	-	-	-
SC	-	-	-	-
ST	-	-	-	01(08)
PH(HH)	-	01(31)	-	-
Total	04	02	-	01
Grand Total 07				

FRESH VACANCIES

S.No	Roster Point	Category
1	282	OC (OZ)
2	283	ST (OZ)
3	284	OC (W) (OZ)
4	285	BC-B (OZ)
5	286	OC (OZ)
6	287	SC (W) (OZ)
7	288	OC (L)
8	289	BC-D (L)
9	290	OC (W) (L)
10	291	SC (L)
11	292	OC (L)
12	293	BC-D (L)
13	294	BC-E (L)
14	295	BC-B (L)
15	296	OC (W) (L)
16	297	SC (L)
17	298	OC/ Sports Quota (L)
Grand total 17		

P.C.No.5 ASSISTANT EXECUTIVE ENGINEER IN WATER RESOURCE (MECHANICAL) DEPARTMENT

CARRY FORWARD VACANCIES

Zone -IV

Community	General		Woman	
	Open zone	L	Open zone	L
OC	-	01(09)	-	-
BC-A	-	-	-	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	-	-	-	-
BC-E	-	-	-	-
SC	-	-	-	-
ST	-	-	-	-
PH(HH)	-	01(31)	-	-
Total	-	02	-	-
Grand total 02				

FRESH VACANCIES

Zone -I

S.No	Roster Point	Category
1	31	HH (L)

Zone -II

S.No	Roster Point	Category
1	22	SC (W) (L)

Zone -III

S.No	Roster Point	Category
1	38	OC (W) (I)

Zone-IV

S.No	Roster Point	Category
1	40	OC (O z)
2	41	SC (L)
Grand total 02		

P.C.No.6 ASSISTANT EXECUTIVE ENGINEER IN PANCHAYATI RAJ (CIVIL/MECHANICAL) DEPARTMENT

CARRY FORWARD VACANCIES

Zone -I

Community	General		Woman	
	Open Zone	L	Open Zone	L
OC	-	-	-	-
BC-A	-	-	-	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	-	-	-	-
BC-E	-	-	-	-
SC	-	-	-	-
ST	-	-	-	-
PH (VH)	-	01(06)	-	-
Total	-	01	-	-
Grand total 01				

CARRY FORWARD VACANCIES

Zone –III

Community	General		Woman	
	Open Zone	L	Open Zone	L
OC	-	01 (13)	-	-
BC-A	-	-	-	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	-	-	-	-
BC-E	-	-	-	-
SC	-	-	-	-
ST	-	-	-	-
PH (VH)	-	01(06)	-	-
Total	-	02	-	-
Grand Total 02				

FRESH VACANCIES
Zone-I

S.No	Roster Point	Category
1	215	OC (OPEN ZONE)
2	216	SC (L)
3	217	OC (W) (L)
4	218	BC- D (W) (L)
Grand total 04		

Zone -II

S.No	Roster Point	Category
1	291	SC (L)

Zone -IV

S.No	Roster Point	Category
1	257	OC (OZ)
2	258	ST (W) (OZ)
3	259	OC (W) (OZ)
4	260	BC- B (OZ)
5	261	OC (OZ)
6	262	SC (OZ)
7	263	OC (OZ)
8	264	BC- D(W) (OZ)
9	265	OC (W) (OZ)
10	266	SC (W) (OZ)
11	267	OC (L)
12	268	BC- D (L)
13	269	BC- E (L)
14	270	BC- A (L)
15	271	OC (W) (L)
16	272	SC (L)
17	273	OC (L)

18	274	BC- B	(L)
19	275	ST	(L)
20	276	OC	(L)
21	277	SC	(L)
22	278	OC (W)	(L)
23	279	BC-A	(L)
24	280	OC	(L)
25	281	BC- B (W)	(L)
26	282	OC	(L)
27	283	ST	(L)
Grand total 27			

P.C.No.7 ASSISTANT EXECUTIVE ENGINEER IN TRIBAL WELFARE (CIVIL/MECHANICAL) DEPARTMENT

CARRY FORWARD VACANCIES

Community	R.P	Zone	General		Woman	
			Open zone	L	Open zone	L
OC	-	-	-	-	-	-
BC-A	-	-	-	-	-	-
BC-B	24	II	-	01	-	-
BC-C	-	-	-	-	-	-
BC-D	-	-	-	-	-	-
BC-E	-	-	-	-	-	-
SC	07	IV	-	01	-	-
ST	-	-	-	-	-	-
PH (VH)	06	IV	-	-	-	01
Total	-	-	-	02	-	01
Grand Total 03						

P.C.NO.8 ASSISTANT EXECUTIVE ENGINEER IN PUBLIC HEALTH & MUNICIPAL ENGINEERING (CIVIL) DEPARTMENT

CARRY FORWARD VACANCIES

Community	R.P	Zone	General		Woman	
			Open zone	L	Open zone	L
OC	67	III	01	-	-	-
BC-A	70	II	-	01	-	-
BC-B	-	-	-	-	-	-
BC-C	-	-	-	-	-	-
BC-D	-	-	-	-	-	-
BC-E	-	-	-	-	-	-
SC	-	-	-	-	-	-
ST	-	-	-	-	-	-
PH	-	-	-	-	-	-
Total	-	-	01	01	-	-
Grand Total 02						

ANNEXURE – II
NOTIFICATION NO.09/2018
SCHEME AND SYLLABUS FOR RECRUITMENT TO THE POSTS OF ASSISTANT EXECUTIVE ENGINEERS
IN VARIOUS ENGINEERING SERVICE
SCHEME FOR SCREENING TEST
WRITTEN EXAMINATION (OBJECTIVE TYPE)
BACHELOR'S DEGREE STANDARD

S.No	Paper	Subject/Branch	Marks	No.of Questions	Total	Duration of time
1	Part-A	General Studies & Mental Ability	50 Marks	50 Questions	150 Questions and 150 Marks	150 Minutes
	Part-B	Civil & Mechanical Engineering (Common) (or) Electrical Engineering	100 Marks	100 Questions		

NB: The candidate has to appear for Papers of his / her subject of study at Engg. Degree. i.e B.E / B. Tech (concerned Subject)

1. **NEGATIVE MARKS:** As per G.O. Ms. No.235 Finance (HR-I, Plg & Policy) Dept., Dt.06/12/2016, for each wrong answer will be penalized with 1/3rd of the marks prescribed for the question.

SYLLABUS FOR SCREENING TEST TO THE POST OF ASSISTANT EXECUTIVE ENGINEERS IN CIVIL ,
MECHANICAL AND ELECTRICAL ENGINEERING

PART - A

50 QUESTIONS 50 MARKS

GENERAL STUDIES AND MENTAL ABILITY

- 1. Events of national and international importance.
- 2. Current affairs- international, national and regional.
- 3. General Science and it applications to the day to day life Contemporary developments in Science & Technology and information Technology
- 4. Social- economic and political history of modern India with emphasis on Andhra Pradesh.
- 5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
- 6. Economic development in India since independence with emphasis on Andhra Pradesh.
- 7. Physical geography of Indian sub-continent and Andhra Pradesh.
- 8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
- 9. Sustainable Development and Environmental Protection
- 10. Logical reasoning, analytical ability and data interpretation.
- 11. Data Analysis:
 - a) Tabulation of data
 - b) Visual representation of data
 - c) Basic data analysis (Summary Statistics such as mean, median, mode, variance and coefficient of variation) and Interpretation
- 12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

SYLLABUS FOR SCREENING TEST TO THE POST OF ASSISTANT EXECUTIVE ENGINEERS IN CIVIL AND MECHANICAL ENGINEERING

PART - B

100 QUESTIONS 100 MARKS

1. Strength of Material:

Forces, moments, Equilibrium; Applying the Equation of Equilibrium, Planar Trusses; Friction; Simple Stresses & Strains: Elasticity and plasticity, Types of stresses & strains, Generalized Hooke's law – Stress-strain diagram for mild steel – Working stress –Factor of safety – Lateral strain, Poisson's ratio & volumetric strain – Elastic moduli & the relationship between them – Bars of varying section – composite bars –Temperature stresses. Strain energy – Resilience – Gradual, sudden, impact and shock loadings. Shear Force (S.F) and Bending Moment (B.M): Definition of beam –Types of beams – Concept of shear force and bending moment – S.F and B.M for cantilever, simply supported and overhanging beams subjected to point loads, U.D.L., uniformly varying loads and combination of these loads – Point of contra flexure –Relation between S.F., B.M and rate of loading at a section of a beam.

Flexural Stresses: Theory of simple bending - Assumptions – bending equation: Neutral axis – bending stresses – section modulus of different sections – Design of simple beam sections.

Shear Stresses: Derivation of formula –Shear stress distribution across various beam sections

Principal Stresses and Strains: Stresses on an inclined section of a bar under axial loading – Compound stresses – Normal and tangential stresses on an inclined plane for biaxial stresses – Two perpendicular normal stresses accompanied by a state of simple shear –Mohr's circle of stresses –Principal stresses and strains – Analytical and graphical solutions. Different theories of Failure: Various theories of failure. Columns and struts – Euler's column theory – types of end conditions; critical load on the column - derivations – Rankin's formula for columns. Lifting machines, definitions, Law of machine, study of important lifting machines; virtual work principal.

Torsion of Circular Shafts: Theory of pure torsion – Torsion Equations: Assumptions made in the theory of pure torsion – Torsional moment of resistance – Polar section modulus – Power transmitted by shafts – Combined bending and torsion and end thrust. Springs-Helical and leaf springs.

Thin & Thick Cylinders and Spherical shells: Thin seamless shells – formula for longitudinal and circumferential stresses and max shear stresses – hoop, longitudinal and volumetric strains – changes in diameter, and volume of thin shells.

2. Fluid Mechanic and Machinery

Fluid statics: Dimensions and units: physical properties of fluids-specific gravity, viscosity, and surface tension -vapour pressure and their influence on fluid motion-atmospheric, Pascal's law, gauge and vacuum pressures – Measurement of pressure-Piezometer, U-tube and differential manometers..Hydrostatics, Fluid forces on planes and curved surfaces, submerged and floating bodies, Buoyancy and stability. Fluid kinematics: description of flow pattern and types of fluid flows – Velocity and acceleration: convective, temporal, tangential and normal accelerations, control volume-basic principles of fluid flow, continuity equation for 3-D, 2-D, 1-D flow. Rotational and irrotational motion, Velocity potential, stream function, flow net.

Fluid dynamics: Surface and body forces – Euler's and Bernoulli's equations for flow along a stream line and its applications, momentum equation and its applications. Flow measurement devices – Gross measurement: Venturimeter, Orificemeter, Turbine flow meters, Rotameters; Pressure measurement: Pitot tubes, hot wire/film anemometer, their measurement principles and sources of errors; calibration.

Closed conduit flow: Reynolds experiment - Major and Minor losses in pipes-pipes in series and pipes in parallel-total energy line-hydraulic gradient line, water hammer. Boundary Layer Concepts: Definition, thicknesses, characteristics along thin plate, laminar and turbulent boundary layers boundary layer in transition, separation of boundary layer, submerged objects – Drag and lift.

Basics of turbo machinery: Hydrodynamic force of jets on stationary and moving flat, inclined, and curved vanes, velocity diagrams, work done and efficiency, Hydraulic Turbines: Classification of turbines, Heads and efficiencies, impulse and reaction turbines, Pelton wheel, Francis turbine and Kaplan turbine - working proportions, work done, efficiencies , hydraulic design – Draft tube theory-functions and efficiency. Performance of hydraulic turbines: Geometric similarity, Unit and specific quantities, characteristic curves, governing of turbines, selection of type of turbine, cavitation. Centrifugal pumps: Classification, working, work done – barometric head-loss and efficiencies, specific speed - Performance characteristic curves, NPSH. Selection of pumps and economic evaluation of pumping.

Hydraulic Directional Control – Check Valves, Shuttle Valves, two- three- and four-Way Directional Control Valves, Directional Control Valve Actuation. Hydraulic Pressure Control – Pressure Relief Valves, Unloading Valves, Pressure Reducing Valves, Sequence Valves,

Counterbalance Valves, Pressure Compensated Pumps.

Hydro Projects And Plant: Classification – Typical layouts – plant auxiliaries – plant operation, pumped storage plants. Hydro Electric Power Plant: Water power – Hydrological cycle / flow measurement – drainage area characteristics – Hydrographs – Storage and Pondage – Classification of dams and spill ways.

SYLLABUS FOR SCREENING TEST TO THE POST OF ASSISTANT EXECUTIVE ENGINEERS IN
ELECTRICAL ENGINEERING BRANCH

PART - B

100 QUESTIONS 100 MARKS

1. Electric Circuits: Active and passive network elements – dependent and independent sources – response of passive elements to arbitrary excitations – energy stored in inductance and capacitance – Kirchoff's law – formation of mesh and Nodal Integro differential equations – their solutions by classical and Laplace transformation methods – Transient and steady state response of RL, RC elements to impulse, step, ramp and sinusoidal inputs – single phase AC circuits – methods of solutions – poly phase circuits – analysis of balanced and unbalanced circuits – measurements of three phase power.

2. Electrical Measurements and Instruments: Absolute and secondary instrument types – Principle of operation of different type of instrument – extension of instrument ranges – measurement of voltage, current, power and energy – localization of cable faults – Murray loop and Varley loop tests – Cathode ray Oscilloscope.

3. Illumination: Solid angle, luminous flux, luminous intensity – Illumination and candle power – laws of Illumination – flood lighting, street lighting – electric lamps.

4. DC Generators and Motors: Types of DC generators – EMF equation – constructional details – characteristics of shunt, series and compound generators – Armature reaction – types of DC motors – Torque developed in a DC motor – speed controls of DC motors and starters.

5. Transformers: Constructional details – Principle of operation – vector diagrams on no load and load – regulation and efficiency – equivalent circuits and tests for the determination of parameters of equivalent circuits – types of three phase transformers and their applications – Scott connection of transformers.

6. 3-Phase Induction Motors: Principle of operation – Cage and Slip ring motors – torque slip characteristics – methods of speed control.

7. 3-Phase Alternators: Principle of operation and constructional details – types of Alternators – synchronous impedance – voltage regulation – short circuit ratio and its importance – Phasor diagrams of round rotor and salient pole machines – synchronization – behaviour of an alternator connected to infinite bus – effect of varying excitation current and mechanical torque – power angle curves – control of active and reactive powers.

8. 3-Phase Synchronous Motors: Principle of operation – torque developed and methods of starting – V and Inverted V curves – effects of variations of excitation – synchronous condensers.

9. Single phase induction Motors: Types of single phase motors – Types of Single phase induction motors – characteristics and methods of starting – shaded pole induction motor.

10. Transmission & Distribution: Line constants – Inductance and Capacitance calculations – Representation of over head Lines – Short, Medium and Long lines – ABCD constants – Mechanical Design – Sag, Tension Calculations, Tuned Power Lines.

11. Over Head Line Insulators: Types of Insulators – Potential distributions over a string of suspension insulators – string efficiency – Methods of improving string efficiency.

12. Underground Cables: Insulation of cables – Grading of cables – Capacitance Measurement in cables – Testing of Cables – Power frequency withstand tests.

13. Fault Calculations: Balanced Fault calculations on systems – Symmetrical components – Types of faults – Analysis of unbalanced faults.

14. Generating Stations: Location and types, types of hydroelectric power stations, layout of a hydro-power plant, types of turbines used – Pumped storage installations – Layout of thermal electric power stations, types of turbines used, condensers, cooling towers, boiler feed pump; energy flow diagram of steam power plant. Nuclear power generation; Nuclear fission – types

of nuclear power reactors – Principle of a fast breeder reactor.

15. Protection: Characteristic of Relays – Over current, directional and distance protection of lines. Protection of Alternators against stator faults, rotor faults, loss of excitation, unbalanced loading, overloading, failure of prime-mover. Over speeding and over voltage. Protection of transformers against winding faults, overloads and external short circuits.

16. Circuit Breakers: Air-blast, oil, minimum oil, vacuum – Sulphur hexafluoride and d.c. circuit breakers – Relative merits and demerits.

17. Economic Aspects: Generation costs and their classification, load curve, load utilization and plant capacity factors. Load sharing between base load and peak-load stations. Load forecasting. Economical distribution of load between unit within a plant and between plants. Modeling of fuel costs for thermal generation. Optimal operation of an all thermal generating system and of a hydro-thermal system. Consideration of transmission losses.

18. Utilization of Electrical Energy: Industrial drives – Motors for various drives –Estimating and Rating – Testing of D.C. and A.C. motors – Neutral Earthing.

SCHEME FOR THE MAIN EXAMINATION

WRITTEN EXAMINATION (OBJECTIVE TYPE)

BACHELOR'S DEGREE STANDARD

<u>PAPER 1 :</u> General Studies & Mental Ability	150 Marks	150 Questions	150 Minutes
<u>PAPER 2 :</u> Civil & Mechanical Engineering (Common) OR Electrical Engineering	150 Marks	150 Questions	150 Minutes
<u>PAPER 3:</u> Civil Engineering (For Post Code No.1,2,4 & 8)	150Marks	150 Questions	150 Minutes
Mechanical Engineering (For Post Code No. 5 only)			
Civil & Mechanical Engineering (Common) (For Post Code No. 6 &7)			
Electrical Engineering (For Post Code No. 3 only)			
Total	450 Marks		

- NB: 1. The candidate has to appear for Papers of his / her subject of study at Engg. Degree.
i.e. B.E / B. Tech (concerned Subject)
2. In respect of Paper-3, (Post Code No. 6 & 7) the Examination will be conducted in different session.
3. **NEGATIVE MARKS:** As per G.O. Ms. No.235 Finance (HR-I, Plg & Policy) Dept., Dt.06/12/2016, for each wrong answer will be penalized with 1/3rd of the marks prescribed for the question.

PAPER - I
GENERAL STUDIES & MENTAL ABILITY

1. Events of national and international importance.
2. Current affairs - international, national and regional.
3. General Science and its applications to the day to day life Contemporary developments in Science & Technology and information Technology
4. Social- economic and political history of modern India with emphases on Indian national movement.
5. Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives.
6. Economic development in India since independence.
7. Physical geography of India sub-continent.
8. Disaster management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.
9. Sustainable Development and Environmental Protection
10. Logical reasoning, analytical ability and data interpretation.
11. Data Analysis:
 - a) Tabulation of data
 - b) Visual representation of data
 - c) Basic data analysis (Summary Statistics such as mean and variance coefficient of variation etc.,) and Interpretation
12. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and legal implications/problems.

PAPER-2
COMMON TO CIVIL AND MECHANICAL ENGINEERING
(For Post Codes 1, 2, 4, 5, 6, 7, 8)

1. Strength of Material:

Forces, moments, Equilibrium; Applying the Equation of Equilibrium, Planar Trusses; Friction. Simple Stresses & Strains: Elasticity and plasticity, Types of stresses & strains, Generalized Hooke's law–stress –strain diagram for mild steel – Working stress – Factor of safety –Lateral strain, Poisson's ratio & volumetric strain – Elastic moduli & the relationship between them – Bars of varying section – composite bars – Temperature stresses. Strain energy –Resilience – Gradual, sudden, impact and shock loadings.

Shear Force (S.F) and Bending Moment (B.M): Definition of beam – Types of beams –Concept of shear force and bending moment – S.F and B.M for cantilever, simply-supported and overhanging beams subjected to point loads, U.D.L., Uniformly varying loads and combination of these loads –Point of contraflexure –Relation between S.F., B.M and rate of loading at a section of a beam.

Flexural Stresses: Theory of simple bending -Assumptions – bending equation: Neutral axis – bending stresses –section modulus of different sections –Design of simple beam sections. Shear Stresses: Derivation of formula – Shear stress distribution across various beam sections

Principal Stresses and Strains: Stresses on an inclined section of a bar under axial loading – Compound stresses – Normal and tangential stresses on an inclined plane for biaxial stresses – Two perpendicular normal stresses accompanied by a state of simple shear –Mohr's circle of stresses – Principal stresses and strains – Analytical and graphical solutions. Different theories of Failure: Various theories of failure. Columns and struts – Euler's column theory – types of end conditions; critical load on the column - derivations – Rankin's formula for columns. Lifting machines, definitions, Law of machine, study of important lifting machines; virtual work principle.

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Thin & Thick Cylinders and Spherical shells: Thin seamless shells – Formula for longitudinal and circumferential stresses and max shear stresses – hoop, longitudinal and volumetric strains – changes in diameter, and volume of thin shells.

2) Fluid Mechanic and Machinery

Fluid statics: Dimensions and units: physical properties of fluids-specific gravity, viscosity, and surface tension - Vapour pressure and their influence on fluid motion - atmospheric, Pascal's law, gauge and vacuum pressures – measurement of pressure - Piezometer, U-tube and differential manometers. Hydrostatics, Fluid forces on planes and curved surfaces, submerged and floating bodies, Buoyancy and stability. Fluid kinematics: description of flow pattern and types of fluid flows – Velocity and acceleration: convective, temporal, tangential and normal accelerations, control volume - basic principles of fluid flow, continuity equation for 3-D, 2-D,

1-D flow. Rotational and irrotational motion, Velocity potential, stream function, flow net.

Fluid dynamics: Surface and body forces –Euler's and Bernoulli's equations for flow along a stream line and its applications, momentum equation and its applications. Flow measurement devices – Gross measurement: Venturimeter, Orificemeter, Turbine flow meters, Rotameters; Pressure measurement: Pitot tubes, Hot wire/film anemometer, their measurement principles and sources of errors; calibration.

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PAPER-2
ELECTRICAL ENGINEERING
(For Post Code No. 3 only)

1. Electric Circuits: Active and passive network elements – dependent and independent sources – response of passive elements to arbitrary excitations – energy stored in inductance and capacitance – Kirchoff's law – formation of mesh and Nodal Integro differential equations – their solutions by classical and Laplace transformation methods – Transient and steady state response of RL, RC elements to impulse, step, ramp and sinusoidal inputs – single phase AC circuits – methods of solutions – poly phase circuits – analysis of balanced and unbalanced circuits – measurements of three phase power.

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7. 3-Phase Alternators: Principle of operation and constructional details – types of Alternators – synchronous impedance – voltage regulation – short circuit ratio and its importance – Phasor diagrams of round rotor and salient pole machines – synchronization– behaviour of an alternator connected to infinite bus – effect of varying excitation current and mechanical torque – power angle curves – control of active and reactive powers.

8. 3-Phase Synchronous Motors: Principle of operation – torque developed and methods of starting – V and Inverted V curves – effects of variations of excitation – synchronous condensers.

9. Single phase induction Motors: Types of single phase motors – Types of Single phase induction motors – characteristics and methods of starting – shaded pole induction motor.

PAPER – 3
CIVIL ENGINEERING
(For Post Code No. 1, 2, 4 & 8)

1. BUILDING MATERIALS: Timber: Different types and species of structural timber, density – moisture relationship, strength in different directions, defects, preservations, and plywood. Bricks: Types, Indian standard classification, absorption, saturation factor, strength in masonry, influence of mortar strength on masonry strength. Cement: Compounds of different types, setting times, strength. Cement mortar: Ingredients, proportions, water demand, mortars for plastering and masonry. Concrete: Importance of w/c ratio, strength, ingredients including admixtures, workability, testing for strength, mix design methods, non-destructive testing.

2. STRUCTURAL ANALYSIS: General theorems: theorems relating to elastic structures, principles of virtual work, strain energy in elastic structures, complementary energy, Castigliano's theorem, Betti's and Maxwell's reciprocal theorems.

Analysis of determinate structures – Deflection of determinate beams by double integration Macaulay's moment area and conjugate beam methods, Analysis of indeterminate skeletal frames-Moment distribution, Slope deflection, Kani's, Stiffness and force methods, Energy methods, Plastic analysis of indeterminate beams and simple portal frames..

3. DESIGN OF STEEL STRUCTURES: Principles of limit state method. Plastic sections, Design of bolted and welded connections, Design of tension, compression members and beams, axially and eccentrically loaded joints, Simple connection of bracket plates to columns, beam to beam and beam to column connections, design of framed, un-stiffened and stiffened seat connections. Design of industrial roofs. Principles of ultimate load design. Design of simple members.

4. DESIGN OF CONCRETE AND MASONRY STRUCTURES: Limit state design for bending, Shear, Axial compression and combined forces. Codal provision for slabs, Beams, Columns and footings. Principles of pre-stressed concrete design, Materials, Methods of pre-stressing, losses. Design of simple members and determinate structures. Design of brick masonry as per IS codes.

5. CONSTRUCTION PLANNING AND MANAGEMENT: Bar chart, Linked bar chart, Work break down structures, Activity – on – arrow diagrams. Critical path, Probabilistic activity durations, Event based networks. PERT network: Time-cost study, Crashing, Resource allocation.

6. HYDRAULICS, AND WATER RESOURCE ENGINEERING: Open Channel flow : types of flows - Type of channels – Velocity distribution – Energy and momentum correction factors, uniform flow and calculation of uniform flow, most economical section, Specific energy, critical flow conditions, critical depth computation, Non-Uniform flow: Assumptions and Equation for Gradually varied flow, types of channel bottom slopes, classification of surface profiles. Rapidly varied flow, hydraulic jump, energy dissipation. Hydraulic Similitude: Dimensional analysis-Rayleigh's method and Buckingham's pi theorem- –Geometric, kinematic and dynamic similarities - dimensionless numbers – model and prototype relations. Distorted and non-distorted models.

Hydrological cycle and its components, Precipitation and related data analysis, Evaporation and transpiration; S-hydrograph, Unit hydrographs. Floods and their management, Probable maximum Flood; Streams and their gauging; Routing of floods; Capacity of reservoirs.

Multipurpose uses of water; Soil-Plant-Water relationships, Irrigation systems, Water demand assessment; Storages and their yields, Ground water yield and well Hydraulics; Water logging, drainage design. Design of rigid boundary canals, Lacey's and tractive force concepts in canal design, Lining of Canals, Sediment transport in canals, Non-overflow and overflow section of gravity dams and their design, Energy dissipaters, tail water rating; Design of head works, Distribution works, Falls, Cross-drainage works, Outlets, River training.

7. ENVIRONMENTAL ENGINEERING: Water Supplying Engineering: Sources of supply, Yields, Design of intakes and conductors, Estimation of demand. Water quality standards, Control of water borne diseases. Primary and secondary treatment. Conveyance and distribution systems of treated water, Leakages and control. Rural water supply. Institutional and industrial water supply.

Waste Water engineering: Urban rain water disposal, Systems of sewage collection and disposal. Design of sewers and sewerage systems, Pumping. Characteristics of sewage and its treatment. Disposal of products of sewage treatment. Plumbing systems. Rural and semi-urban sanitation.

Solid Waste Management: Sources and effects of air pollution, Monitoring of air pollution, Noise pollution, Standards, Ecological chain and balance. Environmental impact assessment.

8. SOIL MECHANICS AND FOUNDATION ENGINEERING: Properties and classification of soil, Compaction, Permeability and Seepage, Flow nets, Compressibility and consolidation. Stress distribution in soils, Shearing resistance, Stresses and failure. Soil testing in laboratories and in-situ, Earth pressure theories, Soil exploration. Types of foundations, Selection criteria, bearing capacity, Settlement, laboratory and field tests, Design of shallow foundations. Types of piles and their design and layout. Foundations on expansive soils.

9. SURVEYING AND TRANSPORT ENGINEERING: Classification of surveys, Scales, Accuracy, Measurement of distances, Direct and indirect methods, Optical and electronic devices, Measurement of directions, Prismatic compass, Local attraction, Theodolites, Types, Measurement of elevations, Spirit and trigonometric leveling, Contours, Digital elevation modeling concept, Establishment of control by triangulations and traversing, Measurement and adjustment of observations, Computation of coordinates, Field astronomy, Concept of global positioning system, Map preparation by plane tabling and by photogrammetry, Remote sensing concepts, Map substitutes.

Planning of Highway systems, Alignment and geometric design, Horizontal and vertical curves, Grade separation, Highway Materials and construction methods for different surfaces and maintenance. Principles of pavement design, Drainage. Traffic surveys, Intersections, Signaling, Mass transit systems, Accessibility, Networking.

Paper-3
MECHANICAL ENGINEERING
(For Post Code No. 5 only)

1. Thermodynamics

Definition of system & control volume, properties and state of a substance, units of mass, length, time, force, energy and work; Equality of temperature, Zeroth Law; Properties of Pure Substances – Pure substance; phase change and phase equilibrium; properties tables and diagrams; Ideal gas law, deviation from ideal law and compressibility factor; Work & Energy – Definition of work and energy; First Law of Thermodynamics; internal energy, enthalpy and specific heat of gases, liquids and solids; energy analysis of closed system; mass and energy analysis of control volumes; Second law of Thermodynamics – Thermal efficiency and coefficient of performance; Kelvin-Planck and Clausius statements and their equivalence; reversibility and its departure; Carnot cycle; thermodynamic temperature scale; Entropy – Clausius inequality; entropy change for pure substance; entropy generation and principle of entropy increase; entropy change for reversible process; entropy change for ideal gases; Energy – Work potential of energy; reversible work and irreversibility; Second Law efficiency; Energy change of a system; Energy transfer by heat, work and mass; Energy balance for closed system and control volumes; Power & Refrigeration Cycles – Air standard power cycles: Otto Cycle, Diesel Cycle, Stirling & Ericsson Cycle; Brayton Cycle and its variants; Second law analysis of gas power cycles; Rankine Cycle and its variants; Vapour Compression Cycle; Second law analysis of vapour power cycles.

2. Heat Transfer

Steady state conduction in one and two-dimensional systems – one dimensional unsteady state conduction; analytical and numerical methods. Extended surface heat transfer (Fins). Convection: Basic equations, Dimensional analysis, Boundary layers; Forced convections: External and internal flows, correlations, Natural convection and Mixed convection. Design of heat exchangers: LMTD and NTU methods. Radiation heat transfer: Basic laws, properties of surfaces, view factors, network method and enclosure analysis for gray – diffuse enclosures containing transparent media, engineering treatment of gas radiation; boiling and condensation.

3. Refrigeration and Air Conditioning

Refrigerating machines, heat pump, vapour compression system, second law efficiency of vapour compression cycle, refrigerants – selection of a refrigerant; thermodynamic, chemical and physical requirements, substitutes of CFC refrigerants; Multi-stage systems, components of a refrigerator – Compressor, condensers, expansion devices, evaporators; Gas cycle refrigeration; Vapour absorption.

system; Properties of moist air and psychrometric chart; Psychrometry of air-conditioning processes; solar radiation, heat transfer through buildings and load calculations; Component design of air-conditioning units.

4. Turbomachines

Dimensional analysis – incompressible and compressible fluid analysis, performance characteristics for low and high speed machines, cavitation; 2D Cascades – cascade geometry, flow characteristics, forces, performance, turbine cascades; Axial flow turbines – mean line analysis, velocity vector diagram, thermodynamic analysis, multi-staging and losses per stage of axial turbines, effect of reaction on efficiency, turbine blade cooling; axial compressor – mean line analysis, velocity diagram, thermodynamic analysis, multistage analysis, high Mach number compressors, stall and surge phenomenon; Centrifugal Pumps,

fans and compressors – their definitions and differences, Thermodynamic analysis, diffuser performance, slip factor, Performance analysis, chocking in a compressor; Hydraulic Turbines – Pelton, Francis and Kaplan turbines, cavitation.

5. Theory of Machines

Basic Kinematic concepts: Introduction to mechanisms, Links, Kinematic pairs, Kinematic chains, Mechanism and Inversions, Kennedy's theorem, Velocity and acceleration in mechanism, Relative velocity methods, Instantaneous center of rotation, Acceleration diagram, Acceleration center. Cams: Synthesis of translating flat-face, translating roller and oscillating roller follower cams. Gears: terminology, fundamental law of gearing, involute profile, Interference and undercutting, minimum number of teeth, contact ratio, bevel, helical, spiral and worm gears, Gear Trains – simple, compound and epicyclic gear trains; sliding gear boxes and synchronous gear boxes.

Dynamics of machines: Dynamics of Rigid Bodies in Plane Motion; Dynamic Force Analysis of Machines. Balancing of inertia forces: Balancing of rotors, balancing of inline internal combustion engines. Friction Devices: Introduction to friction, Belt, chain and rope drive, Transmission of Power through friction clutch.

6. Machine Design

Design consideration – limits, fits, tolerances, and standardization, a brief introduction to strength of materials, modes of failure, failure theories, design of shafts under static and fatigue loadings, design of springs – helical, compression, tension, torsional and leaf springs, design of joints – threaded fasteners, preloaded bolt joints, welded and glued joints, design and analysis of sliding and rolling contact bearings, analysis and applications of power screws and couplings, analysis of clutches and brakes, design of belt and chain drives, design of spur and helical gears.

7. Machine Drawing and Solid Modelling

Principle of drawing. Introduction to machine drawing, production drawing, assembly drawing. Different sectional views. Fits, limits, tolerances and surface finish. Introduction to computer aided design, fundamentals of computer graphics; geometric modelling of synthetic curves: Hermite, Bezier, B-spline, NURBS. Parametric representation of surfaces: plane, ruled, revolution; Part modelling techniques: wireframe, surface and solid modelling, data representation and exchange formats, geometry and topology. Three-dimensional transformations and projections. Solid modelling of different machine elements. Example, threads, bolts and nuts, welded and riveted joints, shafts, keys, cotter and pin joints; couplings and clutches, springs, belts and pulleys; bearings, gears. Assembly of different components of IC engine.

8. Engineering Materials

Concepts of metallurgy and materials science, types of materials (metals, ceramics, polymers, hybrids), material properties (structural and functional), application orientated material design, some case studies: biomaterials, automotive, aerospace, etc. Structure of metals, Determination of structure and chemical composition, concepts of alloys, phase and phase diagrams. Imperfections in crystals-point defects, dislocations and voids, theory of dislocations, strengthening mechanisms, diffusion in solids, heat treatments and phase transformations, mechanical response and microstructure-property relationship.

9. Manufacturing Science

Introduction to Manufacturing and its evolution, Net and near-net shape manufacturing; Metal Casting: Solidification of Alloys and its mechanism, Gating System Design and Estimation of Solidification time, Riser Design and Riser Placement, Process Variations, Defects and Product Design; Metal Forming: Mechanism of plastic deformation, fundamentals of plasticity, Introduction to Force equilibrium method, State of Stress and boundary conditions in Upsetting/forging, Rolling, Wire and tube drawing, Extrusion and Deep Drawing, Defects, Load estimation for one plane strain and one axisymmetric bulk deformation processes, Analysis of Deep Drawing and Bending, Introduction to High velocity forming processes; Powder Processing (Metals and Ceramics), Polymer Part Manufacturing, Introduction and properties of polymer melts and Visco-elasticity, Processing of Thermoplastics (Extrusion, Injection Molding, Blow Molding, Rotational Molding) and Thermosets (compression and transfer molding), Tool and product design principles; Rapid Manufacturing: Need for Rapid Prototyping/Rapid Tooling/Rapid Manufacturing, Introduction to Processes for Prototyping, Tooling and Manufacturing; Joining and Welding: Introduction, Solid State and Fusion Joining, Brazing and Soldering, Mechanical and Adhesive Joining, Metal and nonmetal joining; Metrology: Tolerancing (Dimensional and Geometric) principles and their measurements (Geometrical tolerances using point data), Interferometry – principles, flatness testing using optical flat, optical interferometers.

Conventional Removal and Finishing Processes: Importance of Material Removal and allied processes, classification; Chip Formation; Types of Chips; Tool Specification: Coordinate and Orthogonal Systems; Mechanics of Metal Cutting: Merchant's Circle Diagram, Stress, Strain and Strain Rate, determination of Shear Plane Angle; Tool Wear and Tool Life; Variables affecting Tool Life; Practical Machining Operations: Turning, drilling, milling; Finishing Operations: Grinding (MRR estimation, Wheel Specifications, Wheel Wear) and other processes; Economics of machining: Minimum Production Cost Criterion, Maximum Production Rate and Maximum Profit Rate Criteria; Unconventional Removal and Finishing

Processes: Abrasive Jet Machining, Ultrasonic Machining; Electro Discharge Machining; Abrasive Jet Machining; Electron Beam Machining; Laser Beam Machining, Finishing processes (AFM and other variants); Miniaturization and its importance, Micro-Manufacturing Processes (Additive, formative and Removal), Scaling laws with emphasis on micro-Manufacturing.

10. Computer Integrated Manufacturing

Current developments in CAD- feature based modeling, design by feature, function, feature linkages, application of feature based models, parametric modeling; Computer Aided Manufacturing: fundamentals of part programming, path generation, post processing and verification; Group Technology, Computer aided process planning (CAPP), computer aided inspection and reverse engineering, manufacturing process simulation, virtual and distributed manufacturing, computer integrated manufacturing.

11. Industrial Engineering

Basics of probability and statistics, Linear Programming and applications, Queuing theory and its applications, forecasting approaches, Monte Carlo simulation procedure. Inventory models discussion (deterministic and probabilistic Models), News vendor model, Inventory Planning and Control, Decision support system tools, Economic Order Quantity (EOQ). Product Design: Design for Manufacture and Assembly (DFMA), Concurrent engineering Work systems design: Work study and classifications, Method study – work measurement, work sampling, Cost Estimation, Calculation of Machining Times, Cost Depreciation, Productivity, Productivity Measurement, Time study, Recording Techniques for Work Study, Information Collection Techniques, Job Evaluation, Ranking system, Incentive Schemes, Individual Group-Company-wide Bonus Schemes, Behavioural aspects of Incentives Plant layout, Ergonomics, CRAFT, Cellular Manufacturing, Scheduling, Assembly Line Balancing, Future directions in Production. Quality management and control: Quality Improvement, Cost of Quality, Statistical Process Control, Central Tendency and Dispersion, Control Charts, Acceptance Sampling, New Quality Concepts, Taguchi Methods, Design of Experiments (DoE), Robust Design, Ishikawa Diagram, ISO certification, Kaizen, Zero Defects Program, Total Quality Management (TQM), Six Sigma; Maintenance Management: Preventive and breakdown maintenance approaches, reliability, Work study for Maintenance, Total Productive Maintenance (TPM), Spare Parts Management, Characteristics and classification of Spare parts; Supply Chain design, scheduling, layout design: Materials Requirement Planning (MRP), MRP-II, Enterprise Resource Planning (ERP), Logistic, Distribution and Supply chain Management, Applications of News vendor model in supply chain.

12. Modelling and Simulation

Introduction to modelling and simulation, introduction to symbolic and numerical computations, degrees of freedom, modelling in dependent and independent coordinates, Lagrange equations, state space formulation, Newton-Raphson method, explicit integrator, implicit integrator, dynamics of constrained mechanical systems as differential algebraic equations, Baumgaurte stabilization, Gauss principle, and inverse problems.

Paper-3

COMMON TO CIVIL AND MECHANICAL ENGINEERING

(For Post Code No. 6 & 7)

1. ENGINEERING DRAWING:

Conic Sections including the Rectangular Hyperbola. Cycloid, Epicycloid and Hypocycloid, Involute. Scales – Plain, Diagonal and Vernier Scales. Principles of Orthographic Projections – Conventions – Projections of Points and Lines Projections of Plane regular geometric figures, Projections of Regular Solids – Auxiliary Views. Sections or Sectional views of Right Regular Solids – Prism, Cylinder, Pyramid, Cone – Auxiliary views – Sections of Sphere. Development of Surfaces of Right Regular Solids – Prism, Cylinder, Pyramid and Cone Principles of Isometric Projection – Isometric Scale – Isometric Views – Conventions – Isometric Views of Lines, Plane Figures, Simple and Compound Solids – Isometric Projection of objects having non- isometric lines. Isometric Projection of Spherical Parts. Conversion of Isometric Views to Orthographic Views and Vice-versa – Conventions Auto- CAD: Basic principles.

2. Environmental science:

Definition, Scope and Importance – Need for Public Awareness. Renewable and non-renewable resources – Natural resources and associated problems – Forest resources – Use and over – exploitation, deforestation– Timber extraction – Mining, dams and other effects on forest and tribal people – Water resources – Use and over utilization of surface and ground water – Floods, drought, conflicts over water, dams – benefits and problems - Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources. - Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity. - Energy resources: Growing energy needs, renewable and non-renewable energy sources use of alternate energy sources. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.

3. ECOSYSTEMS: Concept of an ecosystem. - Structure and function of an ecosystem. - Producers, consumers and decomposers. - Energy flow in the ecosystem - Ecological succession. - Food chains, food webs and ecological pyramids. - Introduction, types and characteristic features, Structure and function of Forest, Grassland, Desert and Aquatic ecosystems.

4. BIODIVERSITY AND ITS CONSERVATION: Introduction - Definition: genetic, species and ecosystem diversity. - Bio-geographical classification of India - Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values - . Biodiversity at global, national and local levels. India as a mega-diversity nation - Hot-spots of biodiversity - Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. - Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards.

5. SOLID WASTE MANAGEMENT: Causes, effects and control measures of urban and industrial wastes. - Role of an individual in prevention of pollution.

6. DISASTER MANAGEMENT: floods, earthquake, cyclone and landslides.

7. SOCIAL ISSUES AND THE ENVIRONMENT: From Unsustainable to Sustainable development - Urban problems related to energy – Water conservation, rain water harvesting, watershed management - Resettlement and rehabilitation of people; its problems and concerns. Environmental ethics: Issues and possible solutions. Climate change, global warming, acid rain, Open zone one layer depletion, nuclear accidents and holocaust. Wasteland reclamation. Consumerism and waste products. Environment Protection Act. Air (Prevention and Control of Pollution) Act. Water (Prevention and control of Pollution) Act. Wildlife Protection Act. Forest Conservation Act - Issues involved in enforcement of environmental legislation. Public awareness.

8. HUMAN POPULATION AND THE ENVIRONMENT: Population growth, variation among nations. Population explosion - Family Welfare Programme. Environment and human health. Human Rights. Value Education. HIV/AIDS. Women and Child Welfare. Role of information Technology in Environment and human health.

9. PRINCIPLES OF ELECTRICAL AND ELECTRONIC ENGINEERING:

i. Electrical Circuits - R-L-C Parameters, Voltage and Current Independent and Dependent Sources, Source Transformation – V-I relationship for Passive elements, Kirchoff's Laws, Network reduction techniques – series, parallel, series- parallel, star-to-delta, delta-to-star transformation,

ii. Single Phase AC Circuits - R.M.S. and Average values, Form Factor, steady state analysis of series, Parallel and Series parallel Combinations of R, L and C with Sinusoidal excitation, concept of reactance, Impedance, Susceptance and Admittance – phase and phase difference, Concept of Power Factor, j-notation.

iii. P-N Junction Diode - Diode equation, Energy Band diagram, Volt- Ampere characteristic, Temperature dependence, Static and dynamic resistances, Equivalent circuit, Diffusion and Transition Capacitances.

iv. Bipolar Junction Transistor (BJT) - Construction, Principle of Operation, Symbol, Amplifying Action, Common Emitter, Common Base and Common Collector configurations. Concepts of Feedback amplifiers and Oscillators

v. Special Purpose Devices - Breakdown Mechanisms in Semi Conductor Diodes, Zener diode characteristics, Use of Zener diode as simple regulator.

vi. Rectifiers and Linear ICs: PN junction diode applications as Half wave, full wave and Bridge Rectifiers, characteristics of Op-Amp, Application of Op – Amps (Inverting, Non – Inverting, Differentiator and Integrator)

10. COMPUTER FUNDAMENTALS:

Basics of computer and its operation: Functional Components and their inter-connections, concept of Booting, Use of Operating System for directory listing, hierarchical directory structure, renaming, deleting files/folders, Memory and types of memory, working with USB flash drives, copying files, concepts of path and pathname, switching between tasks, installation/removal of applications.

PAPER-3
ELECTRICAL ENGINEERING
(For Post Code No. 3 only)

- 1. Transmission & Distribution:** Line constants – Inductance and Capacitance calculations – Representation of over head Lines – Short, Medium and Long lines – ABCD constants – Mechanical Design – Sag, Tension Calculations, Tuned Power Lines.
- 2. Over Head Line Insulators:** Types of Insulators – Potential distributions over a string of suspension insulators – string efficiency – Methods of improving string efficiency.
- 3. Underground Cables:** Insulation of cables – Grading of cables – Capacitance Measurement in cables – Testing of Cables – Power frequency withstand tests.
- 4. Fault Calculations:** Balanced Fault calculations on systems – Symmetrical components – Types of faults – Analysis of unbalanced faults.
- 5. Generating Stations:** Location and types, types of hydroelectric power stations, layout of a hydro-power plant, types of turbines used – Pumped storage installations – Layout of thermal electric power stations, types of turbines used, condensers, cooling towers, boiler feed pump; energy flow diagram of steam power plant. Nuclear power generation; nuclear fission – types of nuclear power reactors – Principle of a fast breeder reactor.
- 6. Protection:** Characteristic of Relays – Over current, directional and distance protection of lines. Protection of Alternators against stator faults, rotor faults, loss of excitation, unbalanced loading, overloading, failure of prime-mover. Over speeding and over voltage. Protection of transformers against winding faults, overloads and external short circuits.
- 7. Circuit Breakers:** Air-blast, oil, minimum oil, vacuum – sulphur hexafluoride and d.c. circuit breakers – Relative merits and demerits.
- 8. Economic Aspects:** Generation costs and their classification, load curve, load utilization and plant capacity factors. Load sharing between base load and peak-load stations. Load forecasting. Economical distribution of load between unit within a plant and between plants. Modeling of fuel costs for thermal generation. Optimal operation of an all thermal generating system and of a hydro-thermal system. Consideration of transmission losses.
- 9. Utilization of Electrical Energy:** Industrial drives – Motors for various drives – Estimating and Rating – Testing of D.C. and A.C. motors – Neutral Earthing.

Annexure-III

INSTRUCTIONS TO CANDIDATES

A. INSTRUCTIONS TO CANDIDATES:

- A.1. The applicants are required to go through the user guide and satisfy themselves as to their eligibility for this recruitment carefully before applying and enter the particulars completely online.
- A.2. Applicant must compulsorily fill-up all relevant columns of application and submit application through website only. The particulars made available in the website will be processed through computer and the eligibility decided in terms of notification and confirmed accordingly.
- A.3. The applications received online in the prescribed proforma available in the website and within the time shall only be considered and the Commission will not be held responsible for any kind of delay/discrepancy on part of the candidate.
- A.4. Applicants must compulsorily upload his/her own scanned photo and signature through .jpg format.
- A.5. The applicants should not furnish any particulars that are false, tampered, fabricated or suppress any material information while making an application through website.
- A.6. Important:-Hand written/typed/Photostat copies/printed application form will not be entertained.
- A.7. The applicant shall produce all the essential certificates issued by the competent authority, for verification by the commission, as and when called for. If candidates fail to produce the same, his/her candidature shall be rejected / disqualified without any further correspondence.
- A.8. The following certificate formats are available on the Commission's Website (<https://psc.ap.gov.in>) for reference.
 - A.8.1. Community, Nativity and Date of Birth Certificate
 - A.8.2. Declaration by the Un-Employed
 - A.8.3. School Study Certificate
 - A.8.4. Certificate of Residence
 - A.8.5. Medical Certificate for the Blind
 - A.8.6. Certificate of Hearing Disability and Hearing Assessment
 - A.8.7. Medical Certificate in respect of Orthopedically Handicapped Candidates
 - A.8.8. Creamy Layer Certificate
 - A.8.9. Local status certificate (if applicable)

B. INSTRUCTIONS REGARDING OFF-LINE EXAMINATION FOR CANDIDATES (if

Screening test is held):

- B.1. The candidates should go through the instructions given on the cover page of test booklet and carefully write his/her Registration Number, Subject / Subject Code, Booklet Series, Name of the Examination Centre etc., in the Answer Sheet, which will be provided to him/her in the examination hall.
- B.2. Since the answer sheets are to be scanned (valued) with Optical Mark Scanner system, the candidates have to USE BALL POINT PEN (BLUE or BLACK) ONLY FOR MARKING THE ANSWERS. The candidates will be supplied OMR Sheet consisting of two copies i.e., the Original Copy (Top Sheet) and Duplicate Copy (Bottom Sheet). The candidate is required to use Ball Point Pen (Blue or Black) for filling the relevant blocks in the OMR Sheet including bubbling the answers. After writing the examination the candidate has to handover the original OMR sheet (Top Sheet) to the invigilator in the examination hall. If any candidate takes away the original OMR Sheet (Top Sheet) his/her candidature will be rejected.
However the candidate is permitted to take away the duplicate (Bottom Sheet) OMR Sheet for his/her record. The candidates should bring Ball Point Pen (Blue or Black and smooth writing pad) to fill up relevant columns on the Answer Sheet. The candidate must ensure encoding the Registration Number, Subject/Subject Code, Booklet Series correctly, write the Name of the Examination Centre, appending Signatures of the Candidate and Invigilator, etc., on the O.M.R. Answer sheet correctly, failing which the Answer sheet will not be valued. Use of whitener / correcting fluid / Blade / Powder/

Eraser / folding / Tearing / Rough Work or any kind of tampering to change the answers on OMR Sheet will lead to disqualification / invalidation / rejection. No correspondence whatsoever will be entertained from the candidates in this regard.

- B.3. The OMR Sheet is to be bubbled by Ball Point Pen (Blue or Black) only. Bubbling by Pencil / Ink Pen / Gel Pen is not permitted in this examination. Any kind of tampering to change the answers on the OMR Sheet will lead to disqualification / invalidation / rejection. No correspondence whatsoever will be entertained from the candidates in this regard.

C. INSTRUCTIONS REGARDING ON-LINE EXAMINATION FOR CANDIDATES:

- C.1. The candidates should take their seats at the prescribed time before the commencement of the examination. Biometric identification would be conducted before entry into examination hall. The entry time would be mentioned in the hall ticket. Late entry after the given entry time would not be allowed. Candidates should not leave the examination hall till the expiry of fulltime. Loaning and interchanging of articles among the candidates is not permitted in the examination hall. Electronic devices including cell phones and pagers are not allowed in the examination hall.
- C.2. The starting time of each examination paper and the entry time would be mentioned in the hall ticket
- C.3. Candidates will not be permitted to leave the examination hall till the expiry of full time. If any candidate leaves the examination hall in the middle, he would be disqualified. If there is any problem with computer system, the candidates have to wait without talking to others till the system is restored. In case of any violation, the candidate will be disqualified.
- C.4. The examination link with the login screen will already be available on your system. Please inform the invigilator if this is not the case.
- C.5. 10 minutes prior to the exam, you'll be prompted to login. Please type the Login ID (Roll No) and the Password (Password for Candidate will be given on exam day) to proceed further.
- C.6. Invigilator will announce the password 15 minutes before commencement of the Examination.
- C.7. Copying or noting down questions and/or options is not allowed. Severe action will be taken if any candidate is found noting down the questions and/or options.
- C.8. After logging in, your screen will display:
- *Profile Information - Check the details & click on "I Confirm" or "I Deny".
 - *Detailed exam instructions - Please read and understand thoroughly.
 - *Please click on the "I am ready to Begin" button, after reading the instructions.
- C.9. You have to use the mouse to answer the multiple choice type questions with FOUR alternative answers.
- C.10. To answer any numerical answer type question, you need to use the virtual numeric key pad and the mouse.
- C.11. On the online exam question screen, the timer will display the balance time remaining for the completion of exam.
- C.12. The question numbers are color coordinated and of different shapes based on the process of recording your response: White (Square) - For un-attempted questions. Red (Inverted Pentagon) - For unanswered questions. Green (Pentagon) - For attempted questions. Violet (Circle) - Question marked by candidate for review, to be answered later. Violet (Circle with a Tick mark) - Question answered and marked by candidate for review.
- C.13. After answering a question, click the SAVE & NEXT button to save your response and move onto the next question.
- C.14. Click on Mark for Review & NEXT to mark your question for review, and then go to the next question.
- C.15. To clear any answer chosen for a particular question, please click on the CLEAR RESPONSE button.
- C.16. A summary of each section, (i.e. questions answered, not answered, marked for review) is available for each section. You have to place the cursor over the section name for this summary.
- C.17. In case you wish to view a larger font size, please inform the Invigilator. On the Invigilator's confirmation, click on the font size you wish to select. The font size will be

visible on the top.

- C.18. You may view INSTRUCTIONS at any point of time during exam, by clicking on the INSTRUCTIONS button on your screen.
- C.19. The SUBMIT button will be activated after 150 Minutes. Please keep checking the timer on your screen.
- C.20. In case of automatic or manual log out, all your attempted responses will be saved. Also, the exam will start from the time where it had stopped.
- C.21. You will be provided a blank sheet for rough work. Do write your Login ID and Password on it. Please ensure that you return it to the invigilator at the end of the exam after tearing only the password from it.
- C.22. Please don't touch the key board as your exam ID will get locked. If your ID gets locked, please inform a nearby invigilator who will help in unlocking your ID and then you can continue with the exam.
- C.23. Please inform the invigilator in case of any technical issues.
- C.24. Please do not talk to or disturb other candidates.
- C.25. In case you are carrying articles other than the admit card, photo identity proof and pen, please leave them outside the exam room.
- C.26. You cannot leave exam room before submitting the paper. Please inform the invigilator if you want to use the wash room.

D. GENERAL INSTRUCTIONS TO CANDIDATES:

- D.1. If the candidate notices any discrepancy printed on the Hall ticket, as to community, date of birth etc., he/she may immediately bring it to the notice of Commission's officials/Chief Superintendent in the examination centre and necessary corrections can be made in the Nominal Roll, in the Examination Hall against his/her Hall Ticket Number for being verified by the Commission's Office.
- D.2. The candidate should satisfy the Invigilator of his/her identity with reference to the signature and photographs available on the Nominal Rolls and Hall Ticket.
- D.3. The candidates should take their seats at the given time before the commencement of the examination and are not to be allowed after the scheduled time. The time of Examination and entry time would be mentioned in the hall ticket. Late entry after the given entry time would not be allowed. Candidates should not leave the examination hall till the expiry of fulltime.
- D.4. The candidates must note that his/her admission to the examination is strictly provisional. The mere fact that an Admission to the examination does not imply that his/her candidature has been finally cleared by the Commission or that the entries made by the candidate in his/her application have been accepted by the Commission as true and correct. The candidates have to be found suitable after verification of original certificates; and other eligibility criteria. The Applicants have to upload his/her scanned recent colour passport photo and signature to the Application Form. Failure to produce the same photograph, if required, at the time of interview/ verification, may lead to disqualification. Hence the candidates are advised not to change their appearance till the recruitment process is complete.
- D.5. The candidates are not allowed to bring any Electronic devices such as mobile / cell phones, programmable calculators, tablets, iPad, Bluetooth, pagers, watches or any other computing devices to examination Hall. Non programmable calculators would be permitted, wherever necessary. Loaning and interchanging of articles among the candidates is not permitted in the examination hall and any form of malpractice will not be permitted in the exam hall.
- D.6. The candidates are expected to behave in orderly and disciplined manner while writing the examination. Their candidature will be rejected in case of impersonation/ disorder/ rowdy behaviour during Examination and necessary F.I.R. for this incident will be lodged with concerned Police Station. The Chief Superintendent of the centre is authorized to take spot decision in this matter.
- D.7. Candidates trying to use unfair means shall be disqualified from the selection. No correspondence whatsoever will be entertained from the candidates.
- D.8. The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked if malpractice and unfair means are noticed at any stage of the Examination. Action will be taken to penalize as per G.O.Ms.No.385, G.A. (Ser. A) Dept., Dt.18/10/2016.

- D.9. (a) Wherever the candidates are totally blind, they will be provided a scribe to write the examination and 20 minutes extra time is permitted to them per hour. Eligible candidates are also allowed to bring their own scribe after due intimation to the Commission after duly providing the full identification details of the scribe like name, address and appropriate proof of identification.
- (b) The applicants shall upload the certificate relating to percentage of disability for considering the appointment of scribe in the examination.
- (c) An extra time of 20 minutes per hour is also permitted for the candidates with locomotor disability and CEREBRAL PALSY where dominant (writing) extremity is affected for the extent slowing the performance of function (Minimum of 40% impairment). No scribe is allowed to such candidates.
- (d) The candidate as well as the scribe will have to give a suitable undertaking conforming to the rules applicable
- D.10. In case the Hall-Ticket is without photo or too small, he/she should affix a passport size photo on Hall-ticket and appear by duly getting attested by Gazetted Officer. He/she shall handover similar photo for each paper to Chief Superintendent for affixing the same on the Nominal Rolls.
- D.11. The candidate will not be admitted to the examination Hall without procedural formalities.
- D.12. The candidate admission to the Examination is provisional, subject to the eligibility, confirmation/satisfaction of conditions laid down in this notification.
- D.13. The candidates should put his/ her signature and get the signature of the invigilator at the appropriate places in the Nominal Roll or OMR Answer Sheet.
- D.14. Instructions to be followed scrupulously in the Examination Hall.

ANNEXURE-IV
LIST OF SCHEDULED CASTES
(Definition 28 of General Rule - 2)
SCHEDULE - I

(Substituted with effect from 27-07-1977 through G.O.Ms.No. 838, G.A.(Services-D) Department, dated 15/12/1977)

- 1 Adi Andhra
- 2 Adi Dravida
- 3 Anamuk
- 4 Aray Mala
- 5 Arundhatiya
- 6 Arwa Mala
- 7 Bariki
- 8 Bavuri
- 9 Beda Jangam, Budga Jangam (In Districts of Hyderabad, Rangareddy, Mahaboobnagar, Adilabad, Nizamabad, Medak, Karimnagar, Warangal, Khammam and Nalgonda)*
- 10 Bindla
- 11 Byagara, Byagari*
- 12 Chachati
- 13 Chalavadi
- 14 Chamar, Mochi, Muchi, Chamar-Ravidas, Chamar-Rohidas*
- 15 Chambhar
- 16 Chandala
- 17 Dakkal, Dokkalwar
- 18 Dandasi
- 19 Dhor
- 20 Dom, Dombara, Paidi, Pano
- 21 Ellamalwar, Yellammalawandlu
- 22 Ghasi, Haddi, Relli, Chachandi
- 23 Godagali, Godagula (in the Districts of Srikakulam, Vizianagaram & Vishakapatnam) *
- 24 Godari
- 25 Gosangi
- 26 Holey
- 27 Holey Dasari
- 28 Jaggali
- 29 Jambuwulu
- 30 Kolupulvandlu, Pambada, Pambanda, Pambala *
- 31 Madasi Kuruva, Madari Kuruva
- 32 Madiga
- 33 Madiga Dasu, Mashteen
- 34 Mahar
- 35 Mala, Mala Ayawaru *
- 36 Mala Dasari
- 37 Mala Dasu
- 38 Mala Hannai
- 39 Mala Jangam
- 40 Mala Masti
- 41 Mala Sale, Netkani
- 42 Mala Sanyasi
- 43 Mang
- 44 Mang Garodi
- 45 Manne
- 46 Mashti
- 47 Matangi
- 48 Mahter
- 49 Mitha Ayyalvar
- 50 Mundala
- 51 Paky, Moti, Thoti
- 52 (Omitted)*
- 53 Pamidi
- 54 Panchama, Pariah

- 55 Relli
- 56 Samagara
- 57 Samban
- 58 Sapru
- 59 Sindhollu, Chindollu
- 60 Yatala (Srikakulam Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008
- 61 Valluvan * (Chittoor and Nellore Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008

* As for the Constitution (Scheduled Caste) orders (Second Amendment) Act 2002, Act No. 61 of 2002

LIST OF SCHEDULED TRIBES

1. Andh, Sadhu Andh *
2. Bagata
3. Bhil
4. Chanchu (Chenchwar omitted) *
5. Gadabas, Boda Gadaba, Gutob Gadaba, Kallayi Gadaba, Parangi Gadaba, Kathera Gadaba, Kapu Gadaba *
6. Gond, Naikpod, Rajgond, Koitur *
7. Goudu (in the Agency tracts)
8. Hill Reddis
9. Jatapus
10. Kammara
11. Kattunayakan
12. Kolam, Kolawar *
13. Konda Dhoras, Kubi *
14. Konda Kapus
15. Konda Reddis
16. Kondhs, Kodi, Kodhu, Desaya Kondhs, Dongria Kondhs, Kuttiya Konds, Tikiria Khondhs, Yenity Khondhs, Kuvinga *
17. Kotia, Benthoriya, Bartika, Dulia, Holva, Sanrona, Sidhopaiko (Dhulia, Paiko, Putiya- omitted *)
18. Koya, Doli Koya, Gutta Koya, Kammara Koya, Musara Koya, Oddi Koya, Pattidi Koya, Rajah, Rasha Koya, Lingadhari Koya (Ordinary), Kottu Koya, Bhine Koya, Raj Koya (Goud-omitted *)
19. Kulia
20. Malis (excluding Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal District)
21. Manna Dhora
22. Nayaks (in the Agency tracts)
23. Mukha Dhora, Nooka Dhora
24. Pardhan
25. Porja, Parangi Perja
26. Reddi Dhoras
27. Rona, Rena
28. Savaras, Kapu Savaras, Maliya Savaras, Khutto Savaras
29. Sugalis, Lambadis, Banjara *
30. Thoti (in Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal Districts)
31. Valmiki (in the Scheduled Areas of Vishakapatnam, Srikakulam, Vizianagaram, East Godavari and West Godavari Districts *)
32. Yenadis, Chella Yenadi, Kappala Yenadi, Manchi Yenadi, Reddi Yenadi *
33. Yerukulas, Koracha, Dabba Yerukula, Kunchapuri Yerukula, Uppu Yerukula *
34. Nakkala Kurivikaran (Nakkala – A.P. Gazette, Part – III (B) Central Acts ordinance and Regulations Issue No. 05 Dt. 02/10/2003)
35. Dhulia, Paiko, Putiya (in the districts of Vishakapatnam, Vizianagaram *)

* As for the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act 2002, Act No. 10 of 2003

LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD CLASSES (Amended from time to time as on 31/08/2007)

GROUP- A

Aboriginal Tribes, Vimuktha Jathis, Nomadic and Semi Nomadic Tribes etc.,

1. Agnikulakshatriya, Palli, Vadabaliya, Besta, jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriya (Vannekapu, Vannereddi, Pallikapu, Pallireddy Neyyala and

- Pattapu) *Mudiraj / Mutrasi / Tenugollu, The G.O. Ms.No. 15 BCW(C2) Dept., dt. 19/02/2009 is suspended. Hence the inclusion of Mudiraj / Mutrasi / Tenugollu is suspended) vide Hon^{ble} A.P. High Court orders in WP No. 2122/2009 dated: 29-04- 2009.
2. Balasanthu, Bahurupi
 3. Bandara
 4. Budabukkala
 5. Rajaka (Chakali Vannar)
 6. Dasari (formerly engaged in bikshatana)
(amended vide G.O.Rt.No. 32, BCW(M1) Department, dated 23/02/1995)
 7. Dommara
 8. Gangiredlavaru
 9. Jangam (whose traditional occupation is begging)
 10. Jogi
 11. Katipapala
 12. Korcha
 13. Lambada or Banjara in Telangana Area
(deleted and included in S.T. list vide G.O.Ms.No. 149, SW, dated 3/5/1978)
 14. Medari or Mahendra
 15. Mondivaru, Mondibanda, Banda
 16. Nayee Brahmin (Mangali), Mangala and Bajantri
(amended vide G.O.Ms.No. 1, BCW(M1) Department, dated 6/1/1996)
 17. Nakkala (Deleted vide G.O. Ms. No. 21, BCW(C2) Dept., Dt. 20/06/2011)
 18. Vamsha Raj (amended vide G.O.Ms.No. 27, BCW(M1) Department, dated 23/06/1995 deleting the Original name Pitchiguntla)
 19. Pamula
 20. Pardhi (Mirshikari)
 21. Pambala
 22. Peddammavandlu, Devaravandlu, Yellammavandlu, Mutyalammavandlu (Dammali, Dammala, Dammula, Damala Castes confined to Srikakulam dist. Vide G.O.Ms. No.: 9 BCW(C2) Dept., Dt. 9/04/2008)
 23. Veeramushti (Nettikotala), Veera bhadreeya (Amended vide G.O. Ms. No. 62, BCW (M1) Dept., Dt. 10/12/1996)
 24. Valmiki boya (Boya, Bedar, Kirataka, Nishadi, Yellapi, Pedda Boya) Talayari and Chunduvallu
(G.O.Ms. No. 124, SW, Dt. 24.06.85) Yellapi and Yellapu are one and the same amended vide G.O. Ms. No. 61, BCW(M1) Dept., Dt. 05.12.1996)
 25. Yerukalas in Telangana area (deleted and included in the list of S.Ts)
 26. Gudala
 27. Kanjara - Bhatta
 28. Kalinga (Kinthala deleted vide G.O.Ms. No. 53, SW, Dt. 07.03.1980)
 29. Kepmare or Reddika
 30. Mondipatta
 31. Nokkar
 32. Pariki Muggula
 33. Yata
 34. Chopemari
 35. Kaikadi
 36. Joshinandiwalas
 37. Odde (Oddilu, Vaddi, Vaddelu)
 38. Mandula (Govt. Memo No. 40-VI/70-1, Edn., Dt. 10.02.1972)
 39. Mehator (Muslim) (Govt. Memo No. 234-VI/72-2, Edn., Dt. 05.07.1972).
 40. Kunapuli (Govt. Memo No. 1279/P1/74-10, E&SW, Dt. 03.08.1975)
 41. Patra (included in G.O. Ms. No. 8, BCW(C2) Dept., Dt. 28.08.2006)
 42. kurakula of Srikakulam, Vizianagaram and Visakhapatnam Districts only. Included vide in G.O.MS.No. 26 BC W (C2) Dept., Dt. 4/07/08
 43. Pondara of Srikakulam, Vizianagaram, and Visakhapatnam Districts only. Included vide G.O.MS.No. 28 BC W (C2) Dept., Dt. 4/07/08
 44. Samanthula, Samantha, sountia, Sauntia of Srikakulam District only. Included vide G.O.MS.No. 29 BC W (C2) Dept., Dt. 4/07/08
 45. pala-Ekari, Ekila, Vyakula, Ekiri, Nayanivaru, Palegaru, Tolagari, Kavali of Chittoor, Cuddapah, Kurnool, Anantapur, Nellore, Hyderabad and Rangareddy Districts only. Included Vide G.O. MS. No. 23 B.C. W (C2) Dept., Dt. 4/07/08
 46. Rajannala, Rajannalu of Karimnagar, Warangal, Nizamabad and Adilabad Districts only. (included in vide G.O.Ms. No. 44 B.C.W(C2) Dept., Dt.07/08/2008).
 47. Bukka Ayyavars, Included vide G.O.Ms.No. 6 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
 48. Gotrala, Included vide G.O.Ms.No. 7 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.

49. Kasikapadi / Kasikapudi, Included vide G.O.Ms.No. 8 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Hyderabad, Rangareddy, Nizamabad, Mahaboobnagar and Adilabad Districts of Telangana Region only.
50. Siddula, Included vide G.O.Ms.No. 9 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
51. Sikligar / Saikalgar, Included vide G.O.Ms.No. 10 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
52. Poosala included vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
53. Aasadula / Asadula, included vide G.O. Ms. No. 13, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to East Godavari and West Godavari Districts only.
54. Keuta/Kevuto/Keviti, included vide G.O. Ms. No. 15, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam District only.

GROUP – B (Vocational)

1. Achukatlavandlu in the Districts of Visakhapatnam and Guntur confined to Hindus only as amended vide G.O. Ms. No. 8, BCW(C2) Dept., Dt. 29.03.2000
2. Aryakshatriya, Chittari, Giniyar, Chitrakara, Nakshas (Muchi Telugu Speaking deleted vide G.O. Ms. No. 31, BCW (M1) Dept., 11.06.1996)
3. Devanga
4. Goud (Ediga) Gouda (Gamella) Kalalee, Goundla, Settibalija of Vishakhapatnam, East Godavari, West Godavari and Krishna Districts and Srisayana (Segidi) – (amended vide G.O. Ms. No. 16, BCW (A1) Dept., dt. 19.06.1997)
5. Dudekula, Laddaf, Pinjari or Noorbash
6. Gandla, Telikula, Devatilakula (Amended vide G.O. Ms. No. 13, BCW(A1) Dept., dt. 20.05.1997)
7. Jandra
8. Kummara or Kulala, Salivahana (Salivahana added vide G.O. Ms. No. 28, BCW(M1) Dept., 24.06.1995)
9. Karikalabhakthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
10. Karnabhakthulu
11. Kuruba or Kuruma
12. Nagavaddilu
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perikabaliya, Puragirikshatriya)
16. Nessi or Kurni
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
18. Srisayana ((**sagidi**)- deleted and added to Sl.No. 4 of Group-B)
19. Swakulasali
20. Thogata, Thogati or Thogataveerakshtriya
21. Viswabrahmin, Viswakarma (Ausula or Kamsali, Kammari, Kanchari Vadla or Vadra or Vadrangi and Silpis) (Viswakarma added vide G.O. Ms. No. 59 BCW(M1) Dept., Dt. 06.12.1995)
22. Kunchiti, Vakkaliga, Vakkaligara, Kunchitiga of Anantapur Dist. Only vide G.O. Ms.No. 10 BCW(C-2) Dept., Dt. 9-04-2008
23. Lodh, Lodhi, Lodha of Hyderabad, Rangareddy, Khammam and Adilabad Districts only. Included in Vide G.O.MS.No. 22 BC W (C2) Dept., Dt. 4/07/08
24. Bondili (included in vide G.O.Ms. No. 42, B.C.W(C2) Dept., Dt.07/08/2008)
25. Are Marathi, Maratha(Non-Brahmins), Arakalies and Surabhi Natakavallu. (included in vide G.O.Ms. No. 40, B.C.W(C2) Dept., Dt.07/08/2008)
26. Neeli (included in vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008).
27. Budubunjala/Bhunjwa/Bhadbhunja, included vide G.O.Ms. No. 11, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Hyderabad and Ranga Reddy District only.
28. Gudia/Gudiya, included vide G.O.Ms. No. 14, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam, Vizianagaram and Vishakhapatnam, district only.

GROUP – C

Scheduled Castes converts to Christianity and their progeny
(Substituted in G.O.Ms.No.159, G.A.(Ser.D) Dept., dt. 02/04/1981)

GROUP – D (Other Classes)

1. Agar
2. Are-Katika, Katika, Are-Suryavamsi(Are-Suryavamsi added vide G.O. Ms. No. 39, B.C. W(C2) Dept., Dt. 7/08/08)
3. Atagara
4. Bhatraju
5. Chippolu (Mera)
6. Gavara
7. Godaba
8. Hatkar
9. Jakkala
10. Jingar
11. Kandra
12. Kosthi
13. Kachi
14. Surya Balija, (Kalavanthulu) Ganika (amended vide G.O.Ms. No. 20, BCW(P2) Dept., Dt. 19.07.1994)
15. Krishanabalija (Dasari, Bukka)
16. Koppulavelama
17. Mathura
18. Mali (Bare, Barai, Marar and Tamboli of all Districts of Telangana Region added as synonyms vide G.O. Ms. No. 3, BCW(C2) Dept., Dt. 09.01.2004 and G.O. Ms. No. 45, B.C.W(C2) Dept., Dt.07/08/2008)
19. Mudiraj / Mutrasi / Tenugollu.
20. Munnurukapu (Telangana)
21. Nagavamsam (Nagavamsa) vide G.O.Ms.No. 53, BC Welfare Dept., dated:19/09/1996
22. Nelli(deleted vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008)
23. Polinativemas of Srikakulam and Visakhapatnam districts
24. deleted vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009
25. Passi
26. Rangrez or Bhavasarakshtriya
27. Sadhuchetty
28. Satani (Chattadasrivaishnava)
29. Tammali (Non-Brahmins) (Shudra Caste) whose traditional occupation is playing musical instruments, vending of flowers and giving assistance in temple service but not Shivarchakars. Included vide G.O. Ms. No. 7, Backward Classes Welfare (C2) Dept., Dt. 19/02/2011).
30. Turupukapus or Gajula kapus {... the words "of Srikakulam, Vizianagaram and Vishakapatnam Districts" were deleted vide G.O.Ms.No. 62, Backward Classes Welfare (C2) Dept., dt. 20/12/2008 and G.O. Ms.No. 19 Backward Classes Welfare (C2) Dept., dt. 19/02/2009} who are subject to Social customs or divorce and remarriage among their women (G.O. Ms. No. 65, E&SW, dt. 18.02.1994)
31. Uppara or Sagara
32. Vanjara (Vanjari)
33. Yadava (Golla)
34. Are, Arevalli and Arollu of Telangana District (Included vide G.O.Ms.No. 11, Backward Classes Welfare (C-2) Department, dt. 13/5/2003 and G.O.Ms. No. 41, B.C.W(C2) Dept., Dt.07/08/2008)
35. Sadara, Sadaru of Anantapur Dist. Only vide G.O.Ms.No. 11 BCW (C-2) Dept., Dt. 9-04-2008
36. Arava of Srikakulam District only. Included in vide G.O. MS. No. 24 BC W (C2) Dept., Dt. 4/07/08
37. Ayyaraka, of Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari, Krishna, Guntur, Khammam and Warangal Districts only. Included in vide G.O. MS. No. 25 BC W (C2) Dept., Dt. 4/07/08
38. Nagaralu of Srikakulam, Vizianagaram, Visakhapatnam, Krishna, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 27 BC W (C2) Dept., Dt. 4/07/08
39. Aghamudian, Aghamudiar, Agamudivellalar and Agamudimudaliar including Thuluva Vellalas of Chittoor, Nellore, Kurnool, Anantapur, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 20 BC W (C2) Dept., Dt. 4/07/08

40. Beri Vysya, Beri Chetty of Chittoor, Nellore and Krishna Districts only. Included in vide G.O. MS. No. 21 BC W (C2) Dept., Dt. 4/07/08
41. Atirasa included vide G.O. Ms.No. 5 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to East Godavari and West Godavari Districts only.
42. Sonidi / Sundi included vide G.O. Ms.No. 11 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
43. Varala included vide G.O. Ms.No. 12 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
44. Sistakaranam included vide G.O. Ms.No. 13 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
45. Lakkamari Kapu included vide G.O. Ms.No. 14 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
46. Veerashaiva Lingayat/Lingabaliya, included vide G.O. Ms.No. 22 Backward Classes Welfare (C2) Dept., dt. 28/02/2009.
47. Kurmi, included vide G.O. Ms. No. 12, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Telangana Region and also Krishna District only.

GROUP – E

(Socially and Educationally Backward Classes of Muslims)

1. Achchukattalavandlu, Singali, Singamvallu, Achchupanivallu, Achchukattuvaru, Achukatlavandlu.
2. Attar Saibuli, Attarollu
3. Dhobi Muslim/ Muslim Dhobi/ Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tskalas or Chakalas, Muslim Rajakas.
4. Faqir, Fhakir Budbudki, Ghanti, Fhakir, Ghanta Fhakirlu, Turaka Budbudki, Derves, Fakeer
5. Garadi Muslim, Garadi Saibulu, Pamulavallu, Kani-Kattuvallu, Garadollu, Garadiga.
6. Gosangi Muslim, Phakeer Sayebulu
7. Guddi Eluguvallu, Elugu Bantuvallu, Musalman Keelu Gurrallavallu
8. Hajam, Nai, Nai Muslim, Navid
9. Labbi, Labbai, Labbon, Labba
10. Pakeerla, Borewale, Deraphakirlu, Bonthala
11. Kureshi/ Khureshi, Khasab, Marati Khasab, Muslim Katika, Khatik Muslim
12. Shaik/ Sheikh
13. Siddi, Yaba, Habshi, Jasi
14. Turaka Kasha, Kakkukotte Zinka Saibulu, chakkitakanevale, Terugadu Gontalavaru, Thirugatiganta, Rollaku Kakku Kottevaru, Pattar Phodulu, Chakketakare, Thuraka Kasha
15. Other Muslim groups excluding Syed, Saiyed, Sayyad, Mushaik; Mughal, Moghal; Pathans; Irani; Arab; Bohara, Bohra; Shia Imami Ismaili, Khoja; Cutchi-Memon; Jamayat; Navayat; and all the synonyms and sub-groups of the excluded groups; and except those who have been already included in the State List of Backward Classes.

N.B.:1. The above list is for information and subject to confirmation with reference to G.O. Ms. No. 58, SW (J) Department, dated 12/05/1997 and time to time orders.

2. On account of any reason whatsoever in case of any doubt/ dispute arising in the matter of community status (SC/ST/BC/OC) of any candidate, subject to satisfaction with regard to relevant rules and regulations in force the decision of the Commission shall be final in all such cases.
