

ANDHRA PRADESH PUBLIC SERVICE COMMISSION::VIJAYAWADA**SUPPLEMENTAL NOTIFICATION NO.04/2023, Dt. 20/04/2023
TO NOTIFICATION NO.23/2018, Dt.31/12/2018****LECTURERS IN GOVERNMENT POLYTECHNIC COLLEGES (ENGINEERING AND NON ENGINEERING) IN A.P. TECHNICAL EDUCATION SERVICE (GENERAL RECRUITMENT FOR FILLING UP OF DISABLED VACANCIES)****PARA – 1:**

- 1.1. The Commission has issued Notification No.23/2018 for filling up of posts of Lecturers in Government Polytechnic Colleges (Engineering and Non-Engineering) in A.P Technical Education Service on 31/12/2018 and completed the selection process duly setting aside 21 vacancies as per the directions of the **Hon'ble High Court in W.P.Nos.15579, 20811 of 2019, 4703, 7790, 8584 of 2020 and 13087 of 2021, dt: 03/11/2021.**
- 1.2. The Hon'ble High Court held that not providing reservations to the persons with benchmark physical disabilities in Rule-4 of the A.P. Technical Educational Service Rules is contrary to the provisions of Disabilities Act, 2016 and directed to identify posts for persons with benchmark disability and a fresh notification or a supplemental notification must be issued by APPSC with the same qualifications, age requirements as in the impugned Notification No.23/2018, dt:31.12.2018, for the Physically challenged and supplementary examination or interview, etc. must be conducted for the post.
- 1.3. Accordingly, Government has amended the A.P. Technical Education Service Rules through G.O.Ms.No.29, Skills Development and Training (TE.A2) Department, Dt.07/11/2022 and identified 21 vacancies for the persons with physical disability. Hence, the supplemental Notification is hereby issued while incorporating the terms and conditions of the Notification No.23/2018, dt: 31.12.2018 **exclusively for filling up of the 21 physically challenged posts** of Lecturers in Government Polytechnic colleges (Engineering and Non-Engineering) in A.P Technical Education Service in the scale of pay of Rs. 15,600 – 39,100 with AGP Rs. 5,400/- (AICTE 2006 Pay Scales), within the age group of 18 – 42 years as on **01.07.2018. The persons with benchmark disabilities are only eligible to apply.**
- 1.4. The desirous physically challenged candidates who are eligible can apply online through Commission's Website **from 27/04/2023 to 17/05/2023 (Note: 16/05/2023** is the last date for payment of fee up to 11:59 mid night).
- 1.5. The applicant who desires to apply for the above post shall login the Commission's Website, with his/her registered OTPR number. In case the candidate is applying for the first time to the post notified by A.P.P.S.C., he/she shall register his/her bio-data particulars through One Time Profile Registration (OTPR) on the Commission's Website viz., Once applicant registers his/her particulars, a user ID is generated and sent to his/her registered mobile number and email ID.
- 1.6. The selection to the post shall be on the basis of Written Examination in Computer Based Recruitment Test mode conducted by the Commission. The Date of Written Examination will be announced separately.
- 1.7. The candidates are required to visit the Commission's website regularly to keep themselves updated about dates of written examination are to be held. The Examination would be in objective type and questions are to be answered on computer system. Instructions regarding computer based recruitment test are attached as **Annexure – III.**
- 1.8. 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
- 1.9. 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.
- 1.10. HALL TICKETS for the written Examination will be hosted on Commission's website for downloading. Instructions would be given through the website regarding downloading of Hall Tickets.
- 1.11. 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.

1.12. The details of vacancies are as follows:-

FRESH VACANCIES

Post Code	Name of the Post	Zone wise vacancies				Total
		I	II	III	IV	
01	Lecturer in Auto Mobile Engineering	-	-	01	01	02
02	Lecturer in Commercial & Computer Practice	-	-	01	-	01
03	Lecturer in Chemical Engineering	01	-	-	-	01
04	Lecturer in Civil Engineering	-	01	02	02	05
05	Lecturer in Electronics & Communication Engineering	-	-	-	01	01
06	Lecturer in Electrical & Electronics Engineering	01	01	01	01	04
07	Lecturer in English	01	01	-	01	03
08	Lecturer in Mathematics	-	-	-	01	01
09	Lecturer in Mechanical Engineering	01	-	-	01	02
10	Lecturer in Mining Engineering	01	-	-	-	01
Total		05	03	05	08	21

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

PARA-2: ELIGIBILITY:

- i. He / She is of sound health, active habits and free from any bodily defect or infirmity rendering him unfit for such service;
- ii. His / Her character and antecedents are such as to qualify him for such service;
- iii. He /She possesses the academic and other qualifications prescribed for the post; and
- iv. 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 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 Main Notification No.23/2018, dated: 31.12.2018.** In respect of other than prescribed Educational Qualifications, claiming equivalence, the decision of the concerned department (Unit Officer) shall be final.

Note: If the applicant possesses an equivalence of qualification other than prescribed qualification in the Commission's notification, applicant should produce a copy of the Government Orders to the Commission in advance within 10 days of last date for submitting applications, failing which their application will be rejected.

Post Code	Name of the Post	Educational Qualification
01	Lecturer in Auto Mobile Engineering	1 st Class Bachelor's Degree in appropriate branch in Engineering / Technology.
03	Lecturer in Chemical Engineering	
04	Lecturer in Civil Engineering	
05	Lecturer in Electronics & Communication Engineering	
06	Lecturer in Electrical & Electronics Engineering	
09	Lecturer in Mechanical Engineering	
10	Lecturer in Mining Engineering	
07	Lecturer in English	First class Post Graduate Degree in appropriate subject.
08	Lecturer in Mathematics	i) Must possess 1 st Class Master Degree in Commerce. ii) Type writing Higher Grade in English and Shorthand Higher Grade in English conducted by State Board of Technical Education and Training.
02	Lecturer in Commercial & Computer Practice (to teach Commerce, Typewriting and Shorthand subjects)	

Note : Please see Annexure- V for subject equivalency particulars.

PARA-4: RESERVATIONS:

- 4.1. The candidates have to produce proof of the disability claimed in their application at all stages of selection along with the certificates relating to Educational Qualifications and local status certificates, etc.
- 4.2. 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" as amended in 15 th June 2017.
- 4.3. 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.

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 preceding 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 in 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 up to 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 main notification, dt:31.12.2018) 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	PH	10Years
2	N.C.C. (who have worked as Instructor in N.C.C.)	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.
3	A.P. State Government Employees (Employees of APSEB, APSRTC, Corporations, Municipalities etc. are not eligible).	Up to maximum 5 Years based on the length of regular service.
4	Retrenched temporary employees in the State Census Department with a minimum service of 6 months.	3 Years
<p><u>EXPLANATION:</u> Provided that the persons referred to at Sl. No. 3 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.</p>		

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 pre-populated 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 pre-populated 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, 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 affect 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. Corrections in the applications will be enabled after the last date of the submission of applications and will be allowed up to 7 days only, from the 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 only and are exempted from payment of examination fee of Rs.120/-.
- 9.2. If candidate is eligible for more than one post he/she shall submit separate application for each eligible post.

Note: Candidates belonging to other States shall pay the prescribed examination 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.

PARA - 11: CENTRES FOR ON-LINE 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 answer key(s) for the question paper(s) on its website after conduct of the examination. If the candidates have any objections with regard to the key /

questions they shall have to file the **objections within three days** after publication of the key in the prescribed proforma available in the website.

- 12.2. The candidate shall pay Rs.100/- per objection raised by him/her against question/ answer key within the stipulated time & procedure as above. In case of genuine objections, which are sustained in the final analysis, the amount will be reimbursed to the candidate.
- 12.3. The objections received 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 **would not be entertained.**
- 12.4. With regard to situation where there is deletion of questions, if any, from any paper, scaling (proportionate increase) would be done for that particular 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.
- 12.5 **The question paper for General Studies & Mental Ability is set in English and translated in to Telugu language. English version will be considered as the authentic version for valuation purpose. The Subject question papers will be in English medium only.**

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 cognizance 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. As per G.O.Ms.No:139 Finance HR (I) Planning Policy Dept., dt:28/07/2016 Rule 7 of APPSC Rules of procedure regarding relinquished vacancies has been deleted.
- 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. As per **G.O.Ms.No.178 Higher Education (TE-I) department, Dt. 09/12/2005, G.O.Ms.No.29 Skills Development & Training (TE.A2) Department, Dt.07/11/2022** 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 to 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 30% of the posts consisting of combined merit lists of locals as well as non-locals and the remaining second part shall comprise the balance 70% of the posts consisting of locals only and the posts shall be filled duly following the rule of reservation".
- 13.6. Scheme is prescribed as per G.O Ms. No.141, Finance (HR-I Plg, & Policy) Dept., dated: 01.08.2016.
- 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. 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: The candidate shall go through the 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
 Annexure- V – Subject equivalency particulars

PARA-15: PROCEDURE OF SELECTION:

- 15.1 The selection of candidates for appointment to the posts shall be based on the merit in the computer based examination followed by oral test (Interview), to be held as per the scheme of examination enunciated at Para-10 above.
- 15.2 Appearance in all the papers of Main examination (computer based examination) is compulsory. Absence in any of the papers will automatically render the disqualification of the candidature.
- 15.3 The minimum qualifying marks for consideration of a candidate to the selection process are 30% for PHs or as per rules.
 N.B.: Mere securing of minimum qualifying marks does not confer any right to the candidate for being considered to the selection.
- 15.4 Where the candidates get equal number of marks in the main examination 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.
- 15.5 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 to 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.
- 15.6 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.
- 15.7. ANSWER KEY: Answer key would be published on the website.
- 15.8. Memorandum of Marks: After publication of final results, the marks list (total marks) of the successful candidates will be displayed on the Commission's website. However, Memorandum of Marks can be obtained after one month from the date of declaration of selection list in APPSC website on payment of Rs.200/- (Rupees Two hundred only) through IPO/DD in favour of Secretary, A.P. Public Service Commission, Vijayawada, for a period of Three Months only. Rejected, invalid, disqualified, ineligible candidates **will not be issued** any Memorandum of Marks and fees paid by such candidates, if any, will be forfeited to Government account, without any correspondence in this regard. Requests for Memorandum of Marks will not be entertained until the recruitment process is finalized.

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), 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 to 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.

The date of Main Notification is 31.12.2018.

**PLACE: VIJAYAWADA,
Date : 20/04/2023.**

**Sd/-
J.Pradeep Kumar,
SECRETARY.**

SUPPLEMENTAL NOTIFICATION NO. 04/2023, Dt.:20/04/2023
TO NOTIFICATION NO.23/2018, Dt.31/12/2018

**BREAKUP OF VACANCIES FOR THE POST OF LECTURER IN GOVERNMENT
POLYTECHNIC**

FRESH VACANCIES

POST CODE NO.01: AUTOMOBILE ENGINEERING

Category	ZONE-III				ZONE-IV				TOTAL				GRAND TOTAL
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		
	G	W	G	W	G	W	G	W	G	W	G	W	
VH	-	-	-	01	-	-	-	01	-	-	-	02	02

POST CODE NO.02: COMMERCIAL & COMPUTER PRACTICE

Category	ZONE-III				TOTAL
	OPEN ZONE		LOCAL		
	G	W	G	W	
VH	-	-	-	01	01

POST CODE NO.03: CHEMICAL ENGINEERING

Category	ZONE-I				TOTAL
	OPEN ZONE		LOCAL		
	G	W	G	W	
VH	-	-	-	01	01

POST CODE NO.04: CIVILL ENGINEERING

Category	ZONE-II				ZONE-III				ZONE-IV				TOTAL				GRAND TOTAL
	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	
VH	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	01
HH	-	-	1	-	1	-	-	-	-	1	-	-	1	1	1	-	03
OH	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	01	
TOTAL	-	-	1	-	1	-	1	-	-	1	1	-	1	1	3	-	05

POST CODE NO.05: ELECTRONICS & COMMUNICATION ENGINEERING

Category	ZONE-IV				TOTAL
	OPEN ZONE		LOCAL		
	G	W	G	W	
HH	-	-	-	01	01

POST CODE NO.06: ELECTRICAL & ELECTRONICS ENGINEERING

Category	ZONE-I				ZONE-II				ZONE-III				ZONE-IV				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	
HH	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	3	-	-	1	04

POST CODE NO.07: ENGLISH

Category	ZONE-I				ZONE-II				ZONE-IV				TOTAL				GRAND TOTAL
	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	
VH	-	-	-	01	-	-	-	01	-	-	-	01	-	-	-	03	03

POST CODE NO.08: MATHEMATICS

Category	ZONE-IV				TOTAL
	OPEN ZONE		LOCAL		
	G	W	G	W	
VH	-	-	-	01	01

POST CODE NO.09: MACHANICAL ENGINEERING

Category	ZONE-I				ZONE-IV				TOTAL				GRAND TOTAL	
	OPEN ZONE		LOCAL		OPEN ZONE		LOCAL		OPEN ZONE		LOCAL			
	G	W	G	W	G	W	G	W	G	W	G	W		
VH	-	-	-	-	-	-	01	-	-	-	-	01	-	01
OH	-	-	01	-	-	-	-	-	-	-	-	01	-	01
TOTAL	-	-	01	-	-	-	01	-	-	-	-	02	-	02

POST CODE NO.10: MINING ENGINEERING

Category	ZONE-I				TOTAL
	OPEN ZONE		LOCAL		
	G	W	G	W	
VH	-	01	-	-	01

ANNEXURE-II

**SCHEME AND SYLLABUS FOR THE POST OF LECTURERS IN GOVERNMENT
POLYTECHNICS (ENGINEERING & NON ENGINEERING) IN A.P. TECHNICAL EDUCATION
SERVICE**

(As per the Annexure-III to the G.O Ms. No. 141, Finance (HR-I Plg & Policy) Dept., Dt. 01/08/2016)

PART-A: Written Examination: (Objective Type)				
Paper	Subject	No. Of Questions	Duration Minutes	Maximum Marks
Paper-1	General Studies & Mental ability	150	150	150
Paper-2	Concerned Subject	150	150	300
PART-B: ORAL TEST (Interview)				50
Total				500
N.B: As per G.O.Ms. No.235 Finance (HR-1, Plg & Policy) Dept, Dt: 06/12/2016, for each wrong answer will be penalized with 1/3 rd of the marks prescribed for the question in all Objective type papers.				

- N.B:**
1. The paper in concerned subject for Engineering streams is of Engineering Bachelor's degree standard.
 2. The paper in the concerned subject for Non-Engineering streams is of P.G. Degree Standard

P.C.No.	Name of the Subject
1.	Automobile Engineering
2.	Commercial & Computer Practice
3.	Chemical Engineering
4.	Civil Engineering
5.	Electronics & Communication Engineering
6.	Electrical & Electronics Engineering
7.	English
8.	Mathematics
9.	Mechanical Engineering
10.	Mining Engineering

PAPER-I: GENERAL STUDIES AND 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 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.

PAPER-II

1. AUTOMOBILE ENGINEERING

1. Thermodynamics: systems – Zeroth Law of thermodynamics – First law of thermodynamics – Second Law of thermodynamics – Entropy – Statistical thermodynamics – Air Compressors I.C. Engines cycles and Process – Combustion in I.C. Engines – Engine performance – Scavenging and supercharging of Engines – Modern development in I.C. Engines – I.C. Engine plant layout.
2. Heat Transfer: Conduction Convection – Thermal Radiation – Heat Exchangers.
3. Fluid Mechanics and Machinery: Fluid properties – Dimensional analysis – Fluid static's Flow past immersed bodies – Centrifugal pumps – Axial flow pumps – Rotary pumps – Reciprocating pumps – Oil Hydraulic systems.
4. Instrumentation: Transducers – Flow measuring transducers – Temperature measurement – Strain gauges – Mechanical measuring devices – Slip gauges – Plug gauge – Micrometers in bars optical flat etc.
5. Automobile chassis & Systems: Chassis layout – Shock absorbers in dependent suspension – torsion bars – gear suspension – wheel balancing – tyres and tubes – constructional details of the engine – Ignition system – Fuel system – Lubrication system – Cooling system – Transmission system – Brakes steering mechanism – Electrical circuits and equipment's – Engine troubles – Air conditioning system – Modern trends in automobiles & Engines.
6. Material Science: Crystallography of metals – Binary alloys – Constitution and equilibrium diagram – methods of studying metal structure – Heat treatment – of steels – Casehardening and surface treatment of steels – Non Ferrous metals and alloys – Creep – Fatigue.
7. Kinematics of Machines: Kinematics – Velocity and Acceleration – Properties of instantaneous centre – Gears – Gears trains – Oams – Governors – Brakes and dynamometers – Clutches – Power transmission – Chain drives.

8. Dynamics of Machines: Static force Analysis – Dynamic Force Analysis – Dynamics of Reciprocating Engines – Balancing – Vibration Analysis of Single degree freedom systems – Torsional Vibrations – Vibration isolation.
9. Design of Automobile Machine Parts: Design of welded joints Design of bolts & nuts Shafts and Axles – Curved beams – Springs – Bearings – clutches – Brakes – Design of connecting rod – Crank shaft fly wheel.
10. Production Technology: Machine tools – Lathes – Shaper, planner and slotting machines Drilling and boring machine – Milling – Lapping – Tool room – Electro machining – Welding – Brazing – Foundry.
11. Industrial Engineering: Industrial management – personnel function – Production facilities – Production Planning and control – Wages and incentives Cost Control – Marketing and Sales Promotion.

2. COMMERCIAL AND COMPUTER PRACTICE

1. **Financial Management:** Meaning, nature, objectives and scope of financial management. Capital budgeting, process, techniques. Sources of finance. Cost of capital - cost of various sources of finances. Leverages - operating and financial leverages. Capital structure theories. Working capital management - cash, receivables and inventory management.
2. **Financial and management accounting:** Techniques of analysis of financial statements - comparative and common size statements, trend analysis and ratio analysis. Funds flow and cash flow analyses.
3. **Managerial Economics:** Meaning, nature and scope of managerial economics. Demand analysis. Production and cost analysis. Market structure - perfect and imperfect markets.
4. **Business environment:** Meaning and components of business environment. Industrial policies, and 1991. Liberalization, privatization and globalization. WTO.
5. **Marketing management:** Meaning, concepts, nature and scope of marketing management - marketing environment. Consumer behavior and market segmentation. Product, price, promotion and Channel management.
6. **Quantitative techniques:** Sampling and sampling methods. Probability and probability distributions - hypothesis testing. Parametric tests (Z, t-tests and ANOVA) and non-parametric tests (Chi-square tests).
7. **Business Mathematics:** Simple and Compound Interest, Calculating value of annuities, Functions and graphs, Limits and differentiation, Basic Matrix operations, Basics of Linear Programming.
8. **Computer tools for office applications:** Basic knowledge of computers and its peripheral equipment, Use of word processing (such as MS Word) and spreadsheet management (such as MS Excel) software. Use of internet and email for office correspondence. Use of accounting packages (such as Tally).

3. CHEMICAL ENGINEERING

1. **PROCESS CALCULATIONS AND THERMODYNAMICS:** Laws of conservation of mass and energy; use of tie components; recycle, bypass and purge calculations; degree of freedom. Zeroth law; Isothermal states, Principles of thermometry. Scales of temperature. First and second laws of thermodynamics, Equations of state and thermodynamics properties of real systems;.Phase equilibria; excess properties and correlations of active components; chemical reaction equilibria. Basics statistical thermodynamics.

2. **FLUID MECHANICS AND MECHANICAL OPERATIONS:** Fluid statics, Properties of fluids: viscosity, density, surface tension, etc., Newtonian and non-Newtonian Fluids, macroscopic energy balance, Bernoulli equation, dimensional analysis, Navier-Stokes and continuity equations, flow through pipelines, flow meters, pump and compressors, elementary boundary layer theory. Size reduction and size separation, free and hindered settling, centrifuges and cyclones, filtration, agitation and mixing, packed and fluidized beds, storage and handling of solids.
3. **HEAT TRANSFER:** Conduction, convection and radiation, heat transfer coefficients, steady and unsteady heat conduction, boiling, condensation and evaporation, types of heat exchangers and evaporators and their design principles.
4. **MASS TRANSFER:** Classification of Mass Transfer Operations (Direct contact of immiscible phases, Membrane separation of phases, Direct & Indirect Operations), Diffusion & Mass Transfer, Fick's law, mass transfer coefficients, film, penetration and surface renewal theories; momentum, heat and mass transfers analogies; Gas-Liquid Operations (Bubble Columns, Multistage tray towers), Liquid-Liquid Operations, Solid-Liquid Operations.
5. **CHEMICAL REACTION ENGINEERING:** Rate of reaction, molecularity, Transition state theory; Concepts in Chemical Kinetics; kinetic of homogeneous reactions; Analysis of Rate Data, Differential and integral methods of kinetic analysis; Single and multiple reactions in ideal reactors; Non-isothermal reactors; Non-ideal flow: F & E curves, axial dispersion; kinetics of heterogeneous catalytic reactions, diffusion effects in catalysis.
6. **INSTRUMENTATION AND PROCESS CONTROL:** Measurement of process variables; dynamics of simple systems: CSTRs, heat exchangers, transfer functions, response of systems, process reaction curve, controller modes (P, PI and PID); control valves; analysis of closed loop systems including stability, frequency response (including Bode plots) and controller tuning.
7. **PLANT DESIGN AND ECONOMICS:** Design of chemical process plants; principles of process economics and cost estimation.
8. **CHEMICAL TECHNOLOGY:** Overview of Chemical Process Technology. Preparation of process flow diagrams, Instrumentation diagrams and Process symbols. Petrochemical Industries: production of petrochemical feedstocks, olefins and aromatics, intermediates from olefins and aromatics. Inorganic Chemical Industries: chlor-alkali industries, manufacture of acids, ammonia, and fertilizers. Fermentation: manufacture of sugar, starch, and its derivatives, manufacture of industrial alcohols. Edible oils: extraction and refining, fat splitting, soaps and detergents.

4. Civil Engineering

1. **ANALYSIS OF STRUCTURES:**
Stresses in beams; combined bending and direct stresses; axially and eccentrically loaded columns Closed-coiled and open-coiled; helical springs under axial load and axial twist; carriage springs Analysis of thin and thick cylinders; compound cylinders Analysis of statically determinate plane trusses; method of joints and method of sections Deflection and slope of beams by Double integration Macaulay's, Moment area and Conjugate beam methods Analysis of statically indeterminate beams by flexibility and stiffness methods; propped cantilevers, fixed beams and continuous beams Strain energy method, slope-deflection method, moment distribution method and Kani's method of analysis of indeterminate structures. Struts subjected to axial loads, buckling, Euler's formula for strut with different support conditions
2. **STRUCTURAL DESIGN:**
Reinforced concrete, concrete technology, R.C.C. Design, working stress method and limit state method, Design of beams, design of axially loaded columns, Design of one-way and two-way slabs, design of continuous beams and slabs; Design of wall footings and isolated footings, combined footings, raft foundations,

and retaining walls by limit state method, water tanks, Deck-slab and T-beam bridges by working stress method. Structural Steel — design of riveted and welded joints, design of tension members; Design of compression members; simple and compound beams. Design of plate girders, crane girders and roof-trusses. Elements of pre-stressed concrete.

3. FLUID MECHANICS AND HYDRAULIC MACHINES:

Fluid properties; fluid statics; fluid-flow concepts; Laminar and turbulent flow; steady and unsteady-flow, uniform and non-uniform flow; continuity equation; Euler's equation of motion; Bernoulli's equation, Hydrostatic force on plane and curved surface Momentum equation and applications; Moment of Momentum equation, Dimensional analysis and similitude; Flow through Pipes: Viscous flow-laminar flow through circular pipes; velocity distribution in laminar flow. Turbulent flow in pipes, velocity distribution in turbulent flow Flow Measuring Devices- Measurement of discharge, venturimeter, orifice meter, notches and weirs, Measurement of velocity, Pitot tube Hydraulic machines; Turbines and pumps; basic equations; performance selection, specific speed.

4. WATER RESOURCES ENGINEERING:

Steady flow through open channels. Uniform flow in channels; Chezy's and Manning's formulae. Specific energy and critical depth. Hydraulic jump — Momentum equation for a hydraulic jump. Surface Water hydrology; Hydrologic cycle, hydrologic data- measurement of precipitation, evaporation, transpiration, and infiltration. Runoff, determination of run-off. Stream gauging; Hydrograph and unit hydrograph, flood routing. Ground water resources, Darcy's law, Dupuits equation, yield of wells, recuperation test.

5. SURVEYING:

Chain surveying; compass surveying, plane table surveying; leveling and contouring, Minor instruments; Areas and Volumes; Theodolite surveying and traversing; Tachometry; Curve ranging; setting out works. Principles and uses of triangulation, hydrographic surveying, Aerial photogrammetry and photo interpretation, remote sensing and electromagnetic distance measurement.

6. GEOTECHNICAL ENGINEERING:

Physical properties of soils; identification and classification of soils; soil compaction; permeability and seepage; stress distribution in soil; consolidation; shear strength of soil; stability of earth slopes; site investigation and sub soil exploration; lateral earth pressure and retaining walls; bearing capacity and shallow foundations; pile foundations; well foundations; Machine foundations.

7. TRANSPORTATION ENGINEERING:

Highway Engineering; classification of roads; highway alignment and surveys; geometric design of highways; elements of traffic engineering; highway materials and testing; elements of pavement design; construction and maintenance of earth gravel, W.B.M., bituminous and concrete roads; highway drainage Railway Engineering; engineering surveys for a new railway route, gauge and gauge problem; track components; ballast; sleepers; rail fastenings; Station and station yards; requirements and requirement for station yards; signaling and inter locking. Elements of cross drainage works; causeways; culverts; bridges

8. ENVIRONMENTAL ENGINEERING:

Water supply engineering; source of water supply, conveyance of water, distribution system; quality of water; treatment of water; filtration; disinfection; method of water treatment Air pollutants – monitoring, quantification and standards. Characteristics of sewage: composition; B.O.D., C.O.D., aerobic and anaerobic decomposition; chemistry of sanitary sewage; sewage disposal; primary and secondary treatment of sewage; design of sewers.

5. ELECTRONICS AND COMMUNICATION ENGINEERING

Section 1: Networks, Signals and Systems

Network solution methods: nodal and mesh analysis; Network theorems: superposition, Thevenin and Norton's, maximum power transfer; Wye-Delta transformation; Steady state sinusoidal analysis using phasors; Time domain analysis of simple linear circuits; Solution of network equations using Laplace transform; Frequency domain analysis of RLC circuits; Linear 2-port network parameters: driving point and transfer functions; State equations for networks.

Continuous-time signals: Fourier series and Fourier transform representations, sampling theorem and applications; Discrete-time signals: discrete-time Fourier transform (DTFT), DFT, FFT, Z-transform, interpolation of discrete-time signals; LTI systems: definition and properties, causality, stability, impulse response, convolution, poles and zeros, parallel and cascade structure, frequency response, group delay, phase delay, digital filter design techniques.

Section 2: Electronic Devices

Energy bands in intrinsic and extrinsic silicon; Carrier transport: diffusion current, drift current, mobility and resistivity; Generation and recombination of carriers; Poisson and continuity equations; P-N junction, Zener diode, BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell; Integrated circuit fabrication process: oxidation, diffusion, ion implantation, photolithography and twin-tub CMOS process.

Section 3: Analog Circuits

Small signal equivalent circuits of diodes, BJTs and MOSFETs; Simple diode circuits: clipping, clamping and rectifiers; Single-stage BJT and MOSFET amplifiers: biasing, bias stability, mid-frequency small signal analysis and frequency response; BJT and MOSFET amplifiers: multi-stage, differential, feedback, power and operational; Simple op-amp circuits; Active filters; Sinusoidal oscillators: criterion for oscillation, single-transistor and op-amp configurations; Function generators, wave-shaping circuits and 555 timers; Voltage reference circuits; Power supplies: ripple removal and regulation.

Section 4: Digital Circuits

Number systems; Combinatorial circuits: Boolean algebra, minimization of functions using Boolean identities and Karnaugh map, logic gates and their static CMOS implementations, arithmetic circuits, code converters, multiplexers, decoders and PLAs; Sequential circuits: latches and flip-flops, counters, shift-registers and finite state machines; Data converters: sample and hold circuits, ADCs and DACs; Semiconductor memories: ROM, SRAM, DRAM; 8-bit microprocessor (8085): architecture, programming, memory and I/O interfacing.

Section 5: Control Systems

Basic control system components; Feedback principle; Transfer function; Block diagram representation; Signal flow graph; Transient and steady-state analysis of LTI systems; Frequency response; Routh-Hurwitz and Nyquist stability criteria; Bode and root-locus plots; Lag, lead and lag-lead compensation; State variable model and solution of state equation of LTI systems.

Section 6: Communications

Random processes: autocorrelation and power spectral density, properties of white noise, filtering of random signals through LTI systems; Analog communications: amplitude modulation and demodulation, angle modulation and demodulation, spectra of AM and FM, superheterodyne receivers, circuits for analog communications; Information theory: entropy, mutual information and channel capacity theorem; Digital communications: PCM, DPCM, digital modulation schemes, amplitude, phase and frequency shift keying (ASK, PSK, FSK), QAM, MAP and ML decoding, matched filter receiver, calculation of bandwidth, SNR and BER for digital modulation; Fundamentals of error correction, Hamming codes; Timing and frequency synchronization, inter-symbol interference and its mitigation; Basics of TDMA, FDMA and CDMA.

Section 7: Electromagnetics

Electrostatics; Maxwell's equations: differential and integral forms and their interpretation, boundary conditions, wave equation, Poynting vector; Plane waves and properties: reflection and refraction, polarization, phase and group velocity, propagation through various media, skin depth; Transmission lines: equations, characteristic impedance, impedance matching, impedance transformation, S-parameters, Smith chart; Waveguides: modes, boundary conditions, cut-off frequencies, dispersion relations; Antennas: antenna types, radiation pattern, gain and directivity, return loss, antenna arrays; Basics of radar; Light propagation in optical fibers.

06.ELECTRICAL AND ELECTRONICS ENGINEERING

Section 1: Electric Circuits

Network graph, KCL, KVL, Node and Mesh analysis, Transient response of dc and ac networks, Sinusoidal steady-state analysis, Resonance, Passive filters, Ideal current and voltage sources, Thevenin's theorem, Norton's theorem, Superposition theorem, Maximum power transfer theorem, Two-port networks, Three phase circuits, Power and power factor in ac circuits.

Section 2: Electromagnetic Fields

Coulomb's Law, Electric Field Intensity, Electric Flux Density, Gauss's Law, Divergence, Electric field and potential due to point, line, plane and spherical charge distributions, Effect of dielectric medium, Capacitance of simple configurations, Biot-Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magnetomotive force, Reluctance, Magnetic circuits, Self and Mutual inductance of simple configurations.

Section 3: Signals and Systems

Representation of continuous and discrete-time signals, Shifting and scaling operations, Linear Time Invariant and Causal systems, Fourier series representation of continuous periodic signals, Sampling theorem, Applications of Fourier Transform, Laplace Transform and z-Transform.

Section 4: Electrical Machines

Single phase transformer: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; Three phase transformers: connections, parallel operation; Auto-transformer, Electromechanical energy conversion principles, DC machines: separately excited, series and shunt, motoring and generating mode of operation and their characteristics, starting and speed control of dc motors; Three phase induction motors: principle of operation, types, performance, torque-speed characteristics, no-load and blocked rotor tests, equivalent circuit, starting and speed control; Operating principle of single phase induction motors; Synchronous machines: cylindrical and salient pole machines, performance, regulation and parallel operation of generators, starting of synchronous motor, characteristics; Types of losses and efficiency calculations of electric machines.

Section 5: Power Systems

Power generation concepts, ac and dc transmission concepts, Models and performance of transmission lines and cables, Series and shunt compensation, Electric field distribution and insulators, Distribution systems, Per-unit quantities, Bus admittance matrix, Gauss-Seidel and Newton-Raphson load flow methods, Voltage and Frequency control, Power factor correction, Symmetrical components, Symmetrical and unsymmetrical fault analysis, Principles of over-current, differential and distance protection; Circuit breakers, System stability concepts, Equal area criterion.

Section 6: Control Systems

Mathematical modeling and representation of systems, Feedback principle, transfer function, Block diagrams and Signal flow graphs, Transient and Steady-

state analysis of linear time invariant systems, Routh-Hurwitz and Nyquist criteria, Bode plots, Root loci, Stability analysis, Lag, Lead and Lead-Lag compensators; P, PI and PID controllers; State space model, State transition matrix.

Section 7: Electrical and Electronic Measurements

Bridges and Potentiometers, Measurement of voltage, current, power, energy and power factor; Instrument transformers, Digital voltmeters and multimeters, Phase, Time and Frequency measurement; Oscilloscopes, Error analysis.

Section 8: Analog and Digital Electronics

Characteristics of diodes, BJT, MOSFET; Simple diode circuits: clipping, clamping, rectifiers; Amplifiers: Biasing, Equivalent circuit and Frequency response; Oscillators and Feedback amplifiers; Operational amplifiers: Characteristics and applications; Simple active filters, VCOs and Timers, Combinational and Sequential logic circuits, Multiplexer, Demultiplexer, Schmitt trigger, Sample and hold circuits, A/D and D/A converters, 8085 Microprocessor: Architecture, Programming and Interfacing.

Section 9: Power Electronics

Characteristics of semiconductor power devices: Diode, Thyristor, Triac, GTO, MOSFET, IGBT; DC to DC conversion: Buck, Boost and Buck-Boost converters; Single and three phase configuration of uncontrolled rectifiers, Line commutated thyristor based converters, Bidirectional ac to dc voltage source converters, Issues of line current harmonics, Power factor, Distortion factor of ac to dc converters, Single phase and three phase inverters, Sinusoidal pulse width modulation.

7. ENGLISH

I. Movements and Concepts

Renaissance, Metaphysical poetry, Neo-classicism, Romanticism, Rise of the novel, Modernism, Postmodernism, Colonialism, Postcolonialism, Diaspora, Psychoanalytical criticism, Myth and archetype, Feminism, Structuralism, Poststructuralism, Deconstruction.

II. Writers and Texts

- | | |
|----------------------------|--|
| 1) William Shakespeare | <i>Hamlet, Tempest</i> |
| 2) John Milton | <i>Paradise Lost-Book 1 and 9</i> |
| 3) William Wordsworth | "Immortality Ode", <i>Tintern Abbey</i> |
| 4) John Keats | "Ode to a Nightingale", "To Autumn" |
| 5) Robert Browning | "My Last Duchess", "The Last Ride Together" |
| 6) Charles Dickens | <i>David Copperfield</i> |
| 7) TS Eliot | "The Waste Land", <i>Murder in the Cathedral</i> |
| 8) GB Shaw | <i>Saint Joan</i> |
| 9) Virginia Woolf | "A Room of One's Own" |
| 10) Samuel Beckett | <i>Waiting for Godot</i> |
| 11) William Golding | <i>Lord of the Flies</i> |
| 12) Robert Frost | "Home Burial", "The Road Not Taken" |
| 13) Eugene O'Neill | <i>The Hairy Ape</i> |
| 14) Toni Morrison | <i>Beloved</i> |
| 15) Mulk Raj Anand | <i>Untouchable</i> |
| 16) AK Ramanujan | "Love Poem for a Wife", "Small-Scale Reflections on a Great House" |
| 17) Girish Karnad | <i>Hayavadana</i> |
| 18) Salman Rushdie | <i>Midnight's Children</i> |
| 19) Chinua Achebe | <i>Things Fall Apart</i> |
| 20) Margaret Atwood | <i>Edible Woman</i> |
| 21) AD Hope | "Australia", "Crossing the Frontier" |
| 22) Bessie Head | <i>A Question of Power</i> |

III. English Language Teaching

- 1) ELT in India: (History and status of English in India; English as Second Language, English as Foreign Language, and English as Global Language).
- 2) Methods and Approaches: (Grammar Translation method, Direct method, Audio-Lingual method; Structural approach, Communicative language teaching)

- 3) Teaching of Language Skills: (Teaching of Listening, Speaking, Reading, and Writing Skills; Teaching of Grammar and Functional English; Teaching of Vocabulary; Classroom techniques; Use of authentic materials)
- 4) Testing and Evaluation: (Principles, Types, Objectives of testing and evaluation)
- 5) Phonetics and Phonology; Syntax and Structure.

8. Mathematics

1. Real Analysis

- Countable and uncountable sets — Real number system—l.u.b and *g.l.b* of a subset of real line.
- Cauchy, monotone and convergent sequences — subsequences BolzanoWeierstrass theorem.
- Tests of convergence of infinite series.
- Continuous and uniform continuous functions — Intermediate value theorems.
- Differentiable functions — Mean value theorems.
- Riemann integrable functions.
- Sequence and series of functions.
- Metric spaces — completeness, compactness and connectedness. —Heine Borel theorem.

2. Complex Analysis

- Algebra of complex numbers — complex plane
- Analytic functions — Cauchy-Riemann equations
- Fractional linear transformation — Mobius transformation.
- Harmonic functions — Mean value property — Maximum principle.
- Complex integration — Cauchy theorem
- Cauchy integral formula — Liouville's and Morera's theorem
- Power series — radius of convergence — manipulation.
- Taylor and Laurent series.
- Calculus of residues

3. Linear Algebra

- Vector spaces — subspaces — Quotient space
- Linear dependence and independence — basis — dimension.
- Inner product space — orthogonal basis Gram Schmidt process.
- Linear transformation — rank nullity theorem — matrix of a linear transformation with respect to a basis — change of basis.
- Singular and non singular matrix — inverse of a matrix.
- Eigen value and eigen vectors — characteristic polynomial — Cayley-Hamilton theorem
- Diagonalization

4. Algebra

- Groups, subgroups, normal subgroups — Lagrange's theorem
- Quotient groups — homomorphism and isomorphism theorems.
- Permutation groups, cyclic groups
- Cayley's theorem, Sylow's theorem and applications.
- Rings, subrings, — quotient rings — homomorphism and isomorphisms
- integral domains, fields
- Ideals, prime ideals, maximal ideals

- Polynomial rings — irreducible polynomials
- Euclidean domain, principle ideal domains

5. Differential equation

- First order linear ordinary differential equations (ODE) — solutions — Exact differential equations and integrating factors.
- First order non-linear equations — solutions — singular solutions.
- Second order linear equations — solutions — Wronskian — variation of parameters.
- Linear higher order equations with constant coefficients and specific variable coefficients
- Formation of partial differential equation (PDE) — geometry of solution — types of solution
- Cauchy problem for first order PDE — characteristic curves
- Compatible systems, Lagrange and Charpit method of solving first order PDE.
- Classification of second order PDEs. Examples of three types.

9. MECHANICAL ENGINEERING

Fluid Mechanics

Fluid properties— density, viscosity, surface tension; Fluid Statics— Hydrostatics, Fluid forces on planes and curved surfaces, submerged and floating bodies, Buoyancy and stability, Fluid Concepts —Streamlines, streaklines, pathlines, viscous vs inviscid flows, laminar vs turbulent flows, compressible v/s incompressible flows; Bernoulli equation; Control Volume analysis: Basic laws — Mass conservation law, thermodynamic laws, Newton's laws, Angular-Momentum principle; Flows in a pipes and channels - friction factor, flow measurement devices — Venturi meter, Orifice meter. Governing equations of fluid flows— continuity, Euler equations, Navier-Stokes equations, internal flows; external flows, Flow separation;

Thermodynamics

Thermodynamic system and control volume, properties and state of a substance, process and cycles, energy, pressure and temperature, Zeroth law, Properties of pure substance, work and heat, First law of thermodynamics, first law analysis for a control volume, Second law of thermodynamics, Entropy, Second law analysis for a control volume, irreversibility and availability, power and refrigeration cycles —Carnot cycle, Brayton cycle, Diesel cycle, Otto cycle, Stirling cycle, Rankine cycle, vapour compression refrigeration cycle and their variants

Material Science

Crystal geometry and structure determination, structure of solids, crystal imperfections, Phase diagram, diffusion in solids, phase transformations, elastic anelastic and visco-elastic behaviour, phase deformation and creep in crystalline materials, fracture, conductors, resistors, semi-conductors, magnetic materials, dielectric materials

Engineering Mechanics and Strength of Materials

Definition for rigid body, statics, dynamics (kinematics and kinetics); Idealization in mechanics; Vector operations; Resultant of system of coplanar forces (parallelogram and triangular construction); Free body diagram; Resolution of forces in 3D; Equilibrium equation; Shear Force and Bending Moment Diagram; Analysis of trusses — Method of joints and Method of sections; stability of trusses; space trusses; Mass and Geometric properties of members — Centre of gravity and moment of inertia for simple geometries; Parallel and Perpendicular — axes theorem; Kinematics and dynamics of rigid bodies; Virtual work done; Energy method for particles. Tension, compression and shear stresses, axially loaded members, torsion, beam bending, transverse shear, combined loading, and impact loading, deflections of beams, energy methods, analysis of stress and strain, stress transformation, applications of plane stress, pressure vessel, column buckling, and statically indeterminate structures.

Manufacturing Processes

Methods of manufacturing with metals — Basic Principles, Processes, equipment, process variables: Casting - Fundamentals, various types of casting processes; Forming — Rolling, Forging, Extrusion and Drawing, Sheet Metal Forming; Joining — Welding, Brazing, Soldering, Bonding and Mechanical Fastening; Non-Traditional Manufacturing - Thermo-mechanical Processes, Thermo-electrical Processes, Chemical Processes, Thermo-chemical Processes, Hybrid Processes

IC Engines - Classification, Basic Working Principles, Components and Engine Operating Events of an IC Engine; Engine Operating Parameters: Geometry, Torque, Power and Work; Fuel Consumption and Efficiencies; SI and CI Engine Cycle Models: Basic Thermodynamic and Thermo-chemistry Analysis.

Turbo-machine: Basic Principles, Two-dimensional cascades, Thermodynamic analysis of axial flow turbines, axial flow compressors, centrifugal pumps, compressors and hydraulic turbines.

Boilers and Condensers: Fire-tube boiler, Water tube boiler, high pressure boilers, boiler draught and performance; types of condensers, jet condenser, surface condenser, condenser efficiency, cooling tower and pond.

Reciprocating Air Compressor: Compressed air systems, reciprocating air compressor, thermodynamic analysis, efficiency, free air delivery.

Heat Transfer and Refrigeration

Modes of heat transfer, heat conduction — 1D steady state, 1D transient, fins; convective heat transfer — natural and forced convection, convective heat transfer correlations, condensation and boiling, heat exchangers — LMTD and NTU methods. Vapour compression refrigeration systems, types of refrigerants, components in a refrigeration systems — pumps, condensers, expansion devices, evaporators; gas cycle refrigeration, vapour absorption system.

Machine Design

Design consideration-limits, fits, tolerances and standardization, 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, helical, bevel and worm gears.

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. 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

Theory of Machines

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.

Production Engineering

Principles of Metal cutting: orthogonal and oblique cutting; mechanics of machining; Machine Tools turning, milling, shaping, drilling: Construction and working; Process variables; Cutting tools —nomenclature, material and tool life; Machinability ; Abrasive machining processes- grinding, honing, lapping, burnishing and super finishing; Equipment, process variables and surface features; Surface integrity concepts. Introduction to NC and CNC: Concepts and programming — Constructional features of various machine tools; Introduction to computer integrated manufacturing.

Metrology : Fundamentals of measurements: Errors, Length Standards, Gauging, Comparators, limits & Fits and Tolerances; Role of metrology in quality assurance; Measurement of geometric forms , Flatness, Straightness, form errors; Slip gauges; Surface finish measurements; Coordinate measuring machines; Vision applications in Metrology; Optical metrology and laser interferometry; Nano measurements

Industrial Engineering

Management functions, Evolution of Management Theory, Management approach to Planning, Analysis and Control functions involved in a Production System; Production cycles, planning functions; Types of industry : Job, Batch, Continuous, Mass and Flow

Productions; Organisation and policies in respect of production planning and control; Product design and development; Forecasting techniques; Scheduling, Sequencing and plant loading for optimal utilization; Queueing models and line balancing; Materials Planning and Control, Inventory Management; Value Analysis; Productivity Analysis, Mechanics of production control.

10. MINING ENGINEERING

Section 1: Mine Development and Surveying

Mine Development: Methods of access to deposits; Underground drivages; Drilling methods and machines; Explosives, blasting devices and practices.

Mine Surveying: Levels and leveling, theodolite, tacheometry, triangulation; Contouring; Errors and adjustments; Correlation; Underground surveying; Curves; Photogrammetry; Field astronomy; EDM and Total Station; Introductory GPS .

Section 2: Geomechanics and Ground Control

Engineering Mechanics: Equivalent force systems; Equations of equilibrium; Two dimensional frames and trusses; Free body diagrams; Friction forces; Particle kinematics and dynamics; Beam analysis.

Geomechanics: Geo-technical properties of rocks; Rock mass classification; Instrumentation and stress measurement techniques; Theories of rock failure; Ground vibrations; Stress distribution around mine openings; Subsidence; Rock bursts and coal bumps; Slope stability.

Ground Control: Design of pillars; Roof supporting systems; Mine filling.

Section 3: Mining Methods and Machinery

Mining Methods: Surface mining: layout, development, loading, transportation and mechanization, continuous surface mining systems; Underground coal mining: bord and pillar systems, room and pillar mining, longwall mining, thick seam mining methods; highwall mining; Underground metal mining: open, supported and caved stoping methods, stope mechanization, ore handling systems.

Mining Machinery: Generation and transmission of mechanical, hydraulic and pneumatic power; Materials handling: haulages, conveyors, face and development machinery, hoisting systems, pumps, crushers.

Section 4: Surface Environment, Mine Ventilation, and Underground Hazards

Surface Environment: Air, water and soil pollution : Standards of quality, causes and dispersion of contamination, and control; Noise; Land reclamation.

Mine Ventilation: Underground atmosphere; Heat load sources and thermal environment, air cooling; Mechanics of air flow, distribution, natural and mechanical ventilation; Mine fans and their usage; Auxiliary ventilation; Ventilation planning; Ventilation networks.

Subsurface Hazards: Mine Gases. Underground hazards from fires, explosions, dust and inundation; Rescue apparatus and practices; Safety in mines; Accident data analysis; Mine lighting; Mine legislation; Occupational safety.

Section 5: Mine Economics, Mine Planning, Systems Engineering

Mine Economics: Mineral resource classification; Discounted cash flow analysis; Mine valuation; Mine investment analysis; Mineral taxation.

Mine Planning: Sampling methods, practices and interpretation; Reserve estimation techniques: Basics of geostatistics and quality control; Optimization of facility location; Work-study.

Systems Engineering: Concepts of reliability; Reliability of simple systems; Maintainability and availability; Linear programming, transportation and assignment problems; Network analysis; Inventory models; Queueing theory; Basics of simulation.

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 Certificat
 - A.8.9. Local status certificate (if applicable)

B. INSTRUCTIONS REGARDING ON-LINE EXAMINATION FOR CANDIDATES:

- B.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.
- B.2. The starting time of each examination paper and the entry time would be mentioned in the hall ticket
- B.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.
- B.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.
- B.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.
- B.6. Invigilator will announce the password 15 minutes before commencement of the Examination.
- B.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.

B.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.

- B.9. You have to use the mouse to answer the multiple choice type questions with FOUR alternative answers.
- B.10. To answer any numerical answer type question, you need to use the virtual numeric key pad and the mouse.
- B.11. On the online exam question screen, the timer will display the balance time remaining for the completion of exam.
- B.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.
- B.13. After answering a question, click the SAVE & NEXT button to save your response and move onto the next question.
- B.14. Click on Mark for Review & NEXT to mark your question for review, and then go to the next question.
- B.15. To clear any answer chosen for a particular question, please click on the CLEAR RESPONSE button.
- B.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.
- B.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.
- B.18. You may view INSTRUCTIONS at any point of time during exam, by clicking on the INSTRUCTIONS button on your screen.
- B.19. The SUBMIT button will be activated after 150 Minutes. Please keep checking the timer on your screen.
- B.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.
- B.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.
- B.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.
- B.23. Please inform the invigilator in case of any technical issues.
- B.24. Please do not talk to or disturb other candidates.
- B.25. In case you are carrying articles other than the admit card, photo identity proof and pen, please leave them outside the exam room.
- B.26. You cannot leave exam room before submitting the paper. Please inform the invigilator if you want to use the wash room.

C. GENERAL INSTRUCTIONS TO CANDIDATES:

- C.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.
- C.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.
- C.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.
- C.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.

- C.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.
- C.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.
- C.7. Candidates trying to use unfair means shall be disqualified from the selection. No correspondence whatsoever will be entertained from the candidates.
- C.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.
- C.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
- C.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.
- C.11. The candidate will not be admitted to the examination Hall without procedural formalities.
- C.12. The candidate admission to the Examination is provisional, subject to the eligibility, confirmation/satisfaction of conditions laid down in this notification.
- C.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.
- C.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 a
- 27 Holey a 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, Vadabalija, 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 Chittor, 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 Vishaphapatnam, 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. Kamabhakthulu
11. Kuruba or Kuruma
12. Nagavaddilu
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perikabalija, 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. Polinativelmas 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, Arevally 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. Afirasa 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. Sondi / 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.
48. Kalinga Komati / Kalinga Vysya vide G.O. Ms. No.10 Backward classes Welfare (c) Department Dated.24.9.2014. The area of operation shall be confined to Srikakulam, Vizianagaram and Visakhapatnam districts only.

GROUP – E

(Socially and Educationally Backward Classes of Muslims)

1. Achchukattalavandlu, Singali, Singamvallu, Achchupanivallu, Achchukattuvaru, Achukattlavandlu.
2. Attar Saibuli, Attarollu
3. Dhobi Muslim/ Muslim Dhobi/ Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tskalas or Chakalasa, Muslim Rajakas.
4. Faqir, Fhakhir Budbudki, Ghanti, Fhakhir, Ghanta Fhakhiru, 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 Gurravallu
8. Hajam, Nai, Nai Muslim, Navid
9. Labbi, Labbai, Labbon, Labba
10. Pakeerla, Borewale, Deraphakhiru, 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.

Annexure - V

2

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of A.P.)

Opp. Mahavir Hospital, Mahavir Marg, Masab Tank, Hyderabad - 500 028.

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Dr. P. SATHI REDDY
SECRETARY (I/C)

Lr.No.APSCHÉ/PGP/Equiv./APPSC-Mech.Eng./2012

DL 31.12.2012



To
The Secretary
A.P. Public Service Commission
Nampally, Hyderabad- 500 001

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Sir,

Sub: APSCHÉ – PGP – APPSC - Recruitment (Direct) to the post of Lecturers in Government Polytechnics vide Notification No: 19/2012 – Equivalence of certain subjects – clarification - furnished - reg.

- Ref:1. Your Lr. No. 1940/RS-38/2/2012, dt: 22/11/2012
2. Your Lr. No. 1425/RS-38/2011, dt: 06.12.2012

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While referring to the subject and references cited, I am by direction, to inform that A.P. State Council of Higher Education has constituted a Committee consisting of University professors and representative from the P/O Commissioner of Technical Education, Hyderabad, to examine the equivalence of B.Tech Mechanical Engineering with that of B.Tech Automobile Engineering, Production Engineering and Aeronautical Engineering.

After going through the syllabi of B.Tech Mechanical Engineering, Automobile Engineering, Production Engineering and Aeronautical Engineering, the committee opined that

1. Above 80% of syllabi pertaining to B.Tech (Automobile Engineering) and B.Tech (Production Engineering) is common with B.Tech (Mechanical Engineering).
2. Whereas 42% of syllabi of B.Tech (Aeronautical Engineering) is common with B.Tech (Mechanical Engineering).
3. As per the procedure in vogue of JNT University, Hyderabad, Osmania University, Hyderabad and Andhra University, Visakhapatnam, the academic equivalence will be considered for the courses where the syllabi and course structure is common about 80%.
4. In this context, B.Tech (Automobile Engineering) and B.Tech (Production Engineering) may be considered as academically equivalent with B.Tech (Mechanical Engineering). However, B.Tech (Aeronautical Engineering) will not be considered academically equivalent with B.Tech (Mechanical Engineering).
5. The details of common subjects semester wise are furnished below:

Received
in the Sec. RS-32
31/12

The particulars of subjects common with Mechanical Engineering

Year	Semester Wise	Production Engineering	Automobile Engineering	Aeronautical Engineering
1 st year		7	7	7
2 nd Year	1 st	6	6	4
	2 nd	6	6	1
3 rd Year	1 st	6	6	1
	2 nd	4	4	2
4 th Year	1 st	3	4	1
	2 nd	1	1	Nil
Total		33	34	16

Total No. of B.Tech (Mechanical Engineering) course subjects are 38.

Finally the committee recommended that B.Tech (Automobile Engineering) and B.Tech (Production Engineering) may be considered as academically equivalent with B.Tech (Mechanical Engineering). B.Tech (Aeronautical Engineering) will not be considered academically equivalent with B.Tech (Mechanical Engineering).

While referring to the equivalence of M.Sc Astronomy, M.Sc Electronics, M.Sc instrumentation with that of M.Sc Physics vide reference (1) cited and equivalence of B.Tech Civil Environmental Engineering with that of Civil Engineering vide reference 2 cited, A.P. State Council of Higher Education has already examined these issues on 07.02.2012 and 13.06.2012 and the recommendations of the Committees in concerned subjects were already communicated (copies enclosed).

With regard to clarification on the eligibility of candidates with M.Tech 1st class and a pass in 1st/2nd class in B.Tech for this notification, copy of Govt. Memo vide No. 13208/TE I/A1/12-1 dt: 01.12.2012 addressed to CTE, Hyderabad is herewith enclosed.

Encl: a.a

Yours faithfully

SECRETARY
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ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A statutory Body of the Government of A.P.)

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Dr. P.SATHI REDDY
SECRETARY (I/C)

Ir.No.APSCHÉ/PGP/Equiv./APPSC/AEE/2012

Dt. 16.06.2012

To
The Secretary
A.P. Public Service Commission
Nampally, Hyderabad- 500 001

Sir
Sub: APSCHÉ – PGP – APPSC - Recruitment (Direct) to the post of AEEs in various Engineering Services - clarification on equivalence of B.E Civil Environmental Engineering with that of B.E/B.Tech Civil – information – furnished- reg.,

Ref: Letter No. 120/RS-20/AEE/2008, dt: 17/05/2012 from the Secretary, APPSC

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While referring to the subject and reference cited, I am by direction, to inform that A.P. State Council of Higher Education has constituted a two man committee consisting of University professors, to examine the equivalence of B.E Civil Environmental Engineering offered by Andhra University with that of B.E/B.Tech Civil Engineering of other Universities.

The Committee examined the syllabus of B.Tech Civil Engineering and B.Tech Civil Environmental Engineering rigorously and viewed that B.E Civil Environmental Engineering offered by Andhra University is equivalent to regular B.E/B.Tech Civil Engineering syllabus. In addition to the regular subjects, more focus is given on Environmental Engineering.

Finally it is resolved by the Members that B.E Civil Environmental engineering offered by Andhra University is equivalent to regular B.E/B.Tech Civil Engineering.

Yours faithfully

[Signature]
(SECRETARY)
[Signature]
18/6/12

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18/6/2012

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Minutes of the Meeting of the Subject Committee in Physics discipline to examine the vacancy of M.Sc specialization for the Lecturer post in Physics at Undergraduate level held on Friday the 07.02.2012 at 11.00 AM in the O/o A.P. State Council of Higher Education, Hyderabad.

Members Present:

1. Prof. M.Nagabhushanam
Chairperson, Board of Studies,
Dept. of Physics, Osmania University
Hyderabad
2. Prof. K.Niranjana
Chairperson, Board of Studies,
Dept. of Physics, Andhra University
Visakhapatnam
3. Prof. S Buddhudu
Chairperson, Board of Studies,
Dept. of Physics, Sri Venkateswara
University, Tirupati, Chittoor. Dist

The Chairman, A.P. State Council of Higher Education welcomed the Members for attending the Meeting and explained that the background for constituting this Committee. While discussing, it is informed that the Government accorded permission to fill up 354 vacancies by recruitment of lecturers in various subjects in Government Degree Colleges under direct recruitment. In this connection, O/o CCE requested for subject relevancy for various posts to A.P.S.C for issue of notification. Accordingly, the Director of Collegiate Education, Hyderabad requested for clarification on the relevance and eligibility of subjects at PG level for various lecturer posts. Further, the Chairman requested the Subject Committee in Physics to examine the minutes and other relevant documents before arriving at a undisputed decision in this matter.

The Members of the Subject Committee in Physics have examined the material and discussed in detail about the eligibility criteria for the recruitment of lecturer in Physics at Undergraduate level based on various courses/ specializations offered at Postgraduate level in various Universities.

It is resolved that all the candidates who possess Masters degree (M.Sc, M.Sc (Tech) in the following subjects with Physics as one of the main subjects at B.Sc level in all the 3 years of Undergraduate Courses are eligible for the recruitment of lecturer in Physics at UG level. It is mandatory that the candidate should have studied Physics at UG level. Apart from

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the above, all the candidates who possess M.Sc (Physics) under 5 year integrated courses are eligible as it includes both UG and PG Physics subjects.

S.NO	Qualification	Specialization	Remarks
1	M.Sc/ M.Sc Tech	Physics	The candidates should have studied Physics Subject at UG level
2		Materials Science	
3		Solid State Physics	
4		Condensed Matter Physics	
5		Space Physics	
6		Nuclear Physics	
7		Electronics	
8		Electronics & Instrumentation	
9		Applied Physics	
10		Instrumentation	
11		Opto-Electronics	
12		Five Integrated M.Sc Physics	
13		Microwaves	
14		Bio Physics	
15		Meteorology & Oceanography	
16		Geo Physics	
17		Astro Physics	
18		Astronomy	
19		Nano Science	
20		Nano technology	
21		Photonics	
22		Energy Management	
23		Electronic Communications	

Memo.No.132

Sub:

Ref: Fr

The attention invited to the reference Class in Bachelors even those who p. examined at Government academic institution

To the Commissioner of AP, Hyderabad.

M.Nagabhusanam
7/2/12
Prof. M.Nagabhusanam
Chairperson, BOS,
Dept. of Physics, Osmania
University, Hyderabad

V.Niranjan
7/2/12
Prof. K.Niranjan
Chairperson, BOS,
Dept. of Physics,
Andhra University
Visakhapatnam

S.Boddu
Prof. S.Boddu
Chairperson, BOS,
Dept. of Physics,
Venkateswara
University, Tirunelveli

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ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

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DR. P. SAHI REDDY
SECRETARY I/C

U.No:APSCHÉ/PGP/equiv/APPSC/Poly.lec/2013

Dt. 12.08.2013

To
The Secretary
A.P. Public Service Commission
Nampally, Hyderabad - 500 001

Sir,

Subj: APSCHÉ- PGP- APPSC- Recruitment (Direct) to the posts of lecturers in Govt. Polytechnic Colleges vide notification No. 19/2012, dt:30.07.2012 - clarification on equivalence of certain subjects- furnished - reg.

Ref: Two Letters No. 1940/RS-38/2012 dt: 05.07.2013 received from APPSC

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While referring to the subject and reference cited, I am by direction, to inform that A.P. State Council of Higher Education has constituted two Expert Subject Committees in Mechanical and Civil Engineering consisting of University Professors, to examine the equivalence of the degrees mentioned in the reference cited to that of B.Tech/ B.E Civil Engineering/ Mechanical Engineering branches.

The Committees examined the syllabi of Degrees mentioned in the reference cited thoroughly and recommended that;

1. Mechanical Engineering

- In first year the subjects are common for B.Tech Production Engineering offered by Acharya Nagarjuna University & B.Tech Industrial & Production Engineering offered by Sri Venkateswara University & Sri Krishnadevaraya University on par with B.Tech Mechanical Engineering offered by Andhra University, Kakatiya University, Osmania University and Jawaharlal Nehru Technological University Hyderabad/ Kakinada/ Ananthapur.
- However from the 2nd year to 4th year, the components of various areas like Thermal Engineering group, Design group and Manufacturing groups covered in B.Tech Production Engineering offered by Acharya Nagarjuna University & B.Tech Industrial & Production Engineering offered by Sri Venkateswara University & Sri Krishnadevaraya University are mapping with B.Tech Production Engineering offered by Andhra, Kakatiya, Osmania and JNTU Hyderabad/ Kakinada/ Anantapur.

Therefore, it is finally resolved that;

The B.Tech Production, Industrial & Production Engineering courses offered by Acharya Nagarjuna University, Sri Venkateswara University and Sri Krishnadevaraya University respectively are equivalent with B.Tech Mechanical Engineering, Production & Industrial Engineering offered by Andhra, Kakatiya, Osmania & JNTU Hyderabad/ Kakinada/ Anantapur.

II. **Civil Engineering**

- (A) Basic Sciences, Humanities & Social Science subjects viz., English, Engineering Mathematics, Engineering Physics, Engineering Chemistry and Corresponding Laboratories are not covered in B. Architecture.
- (B) The following subjects are need to be covered under B.E/B.Tech Civil Engineering:
1. Basic Civil Engineering subjects viz.,
 - i. Strength Materials – I & II,
 - ii. Fluid Mechanics
 - iii. Engineering Geology and
 - iv. Corresponding Labs
 2. Core Civil Engineering subjects viz.,
 - i. Soil Mechanics
 - ii. Foundation Engineering,
 - iii. Hydraulic Machinery,
 - iv. Transportation Engineering and
 - v. Corresponding Labs
 3. Other essential Civil Engineering subjects viz.,
 - i. Structural Analysis – I & II,
 - ii. Water Resources Engineering I & II
 4. Some Elective subjects viz.,
 - i. Bridge Engineering ,
 - ii. Ground improvement Techniques
 - iii. Advanced Transportation Engineering
 - iv. Pre-Stressed Concrete
 - v. Advanced Structural Analysis
 - vi. Advanced Structural Engineering

Overall, the following subjects are not covered under B. Architecture programme.

Engineering Mathematics, Engineering Physics & Laboratory, Engineering Chemistry & Laboratory, Engineering Drawing, English Language, Strength of Materials – I & II, Fluid Mechanics, Hydraulic Machinery, Water Resources Engineering , Transportation Engineering, Soil Mechanics, Foundation Engineering, Structural Analysis I & II, Engineering Geology, Strength of Materials – Lab, Fluid Mechanics – Lab, Soil Mechanics – Lab, Engineering Geology Lab, Concrete Technology & Lab, Transportation Engineering Lab, Environmental Engineering Lab

It is inferred that, most of the Courses/Subjects of B.E/B.Tech Civil Engineering courses and Syllabi are not matching with B. Architecture Course and Syllabi

Hence, it is finally recommended that, B. Architecture cannot be considered as an equivalent to B.E/B.Tech Civil Engineering Course.

This is for favour of information

Yours faithfully

[Signature]
SECRETARY
[Signature]
12/12/14



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A statutory Body of the Government of A.P.)

Opp. Mahavir Hospital, Mahavir Marg, Masab Tank, Hyderabad - 500 028.

☎ : (O) 040-23311594 & 23310395 Fax : 040 - 23311470

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Dr. P.SATHI REDDY
SECRETARY (I/C)

Lr.No.APSCHE/PGP/Equiv./APPSC/IGNOU/2012

Dt. 28/12/2012

To
The Secretary
A.P. Public Service Commission
Nampally, Hyderabad- 500 001

Immediate on file
28/12/12

Sir

Sub: APSCH - PGP - APPSC - Recruitment (Direct) to the post of AEEs in various Engineering Services - clarification on equivalence of B.E Civil Construction Management of IGNOU, New Delhi with that of B.E/B.Tech Civil Engineering- furnished- reg.,

AS (RS-20)
u/m

Ref: Your Letter No. 120/RS-20/AEE/2008, dt: 18.10.2012

-oOo-

While referring to the subject and reference cited, I am by direction, to inform that A.P. State Council of Higher Education has constituted a three member committee consisting of University professors, to examine the equivalence of B.E Civil Construction Management of IGNOU, New Delhi with that of B.E/B.Tech Civil Engineering offered in A.P. State Universities.

The Committee reviewed the course structure of B.Tech Civil (Construction Management) offered by Indira Gandhi National Open University (IGNOU), New Delhi and found that the essential courses of B.Tech/ B.E Civil Engineering as detailed below are missing.

30 (RS20)
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- i) Surveying I & II
- ii) Engineering graphics / Drawing
- iii) Engineering Geology
- iv) Building drawing & material
- v) English (Technical)
- vi) All laboratories including physics and chemistry

Further the Committee noted that the laboratory courses which is essential component in Engineering education are missing. For conventional Civil Engineering Course at least 16 (sixteen) laboratory courses are required where as only 2 (two) laboratory courses are found in B.Tech Civil (Construction Management) of IGNOU, New Delhi.

Keeping in view of the above shortfalls, the Committee finally resolved that the B.Tech Civil (Construction Management) offered by IGNOU, New Delhi could not be considered as an equivalent to B.Tech / B.E Civil Engineering course.

Yours faithfully

P. Sathi Reddy
(SECRETARY)
30/12/12



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Dr. P.SATHI REDDY
SECRETARY (I/C)

Rc.No.APSCHÉ/PGP/equiv/APPSC/Poly.1ec/2013

Dt. 24.08.2013

To
The Secretary
A.P. Public Service Commission
Nampally, Hyderabad- 500 001

Sir,

Sub: APSCHÉ- PGP- APPSC- Recruitment (Direct) to the posts of lecturers in Govt. Polytechnic Colleges vide notification No. 19/2012, dt:30.07.2012 - equivalence of B.Tech CSIT/IT with that of B.Tech CSE and vice versa-clarification furnished - reg.

Ref: Two Letters No. 1940/RS-38/2012 dt: 17.07.2013 & 20.08.2013 of APPSC

27 AUG 2013

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While referring to the subject and reference cited, I am by direction, to inform that A.P. State Council of Higher Education has constituted Expert Subject Committee consisting of University Professors, to examine the equivalence of B.E/B.Tech CSIT/ IT/IST with that of B.E/B.Tech Computer Science Engineering and vice versa.

The Committee after going through the syllabi and thorough discussion, made the following observations;

- a. The B.Tech CSE(Computer Science Engineering), IT(Information Technology), IST (Information Science and Technology) and CSIT (Computer Science and Information Technology) syllabus of various Universities in the State have been reviewed and found that more than 75% of the syllabi is same for all these courses.
- b. In the remaining 25%, in case of B.Tech CSE (Computer Science Engineering) , it is hardware oriented and for B.Tech IT (Information Technology), it is of application oriented.

Therefore, It is finally recommended by the Committee that (the courses B.E/B.Tech CSIT, IT and IST are considered equivalent with that of B.E/B.Tech Computer Science Engineering (CSE) and vice versa for recruitment to the posts of lecturers in Govt. Polytechnic Colleges.)

This is for your kind information

Yours faithfully

SECRETARY
BP
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DS IV
Cg
29/8/13



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of A.P.)

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Dr. P.SATHI REDDY
SECRETARY (I/C)

Lr. No. APSCHÉ/PGP/equiv/APPSC/AEE/2013

Dt. 17.05.2013

To
The Secretary
A.P. Public Service Commission
Nampally, Hyderabad- 500 001

Madam,

Sub: APSCHÉ- PGP- APPSC- Recruitment Direct to the post of Assistant Executive Engineers, Commissions Notification No. 41/2011- Equivalence of Qualification in Engineering Degree - clarification -- requested - reg.

Ref: Your Lr. No. 1790/RS-20/AEE/2010, dt: 25.04.2013

-oOo-

While referring to the subject and reference cited, I am by direction, to inform that A.P. State Council of Higher Education has constituted two Expert Subject Committees in Mechanical and Civil Engineering consisting of University Professors, to examine the equivalence of the degrees mentioned in the reference cited to that of B.Tech/ B.E Civil Engineering/ Mechanical Engineering branches.

The Committees examined the syllabi of Degrees mentioned in the reference cited thoroughly and recommended that;

- a. B.Sc Engg (Mechanical) offered at Tilkamanji Bhagalpur University, Bhagalpur is considered equivalent to B.Tech Mechanical Engineering program offered by any standard University.
- b. B.Tech Mechanical Engineering (Mechatronics) offered by JNTU Hyderabad is considered equivalent to B.Tech Mechanical Engineering program offered by any standard University.
- c. B.Tech (Mechanical & Automation Engineering) offered by Gurugobind Singh Indraprastha University, Delhi, is considered equivalent to B.Tech Mechanical Engineering program offered by any standard University.
- d. B.Tech Civil Engineering offered by Malavya Rashtriya Institute of Technology (National Institute of Technology), Jaipur is considered equivalent to BE/ B.Tech Civil Engg.
- e. B.Sc Engg (Civil Engineering) offered by Tilkamanjhi Bhagalpur University, Bhagalpur is considered equivalent to BE/ B.Tech Civil Engg.

- f. B.Sc Engg (Civil Engineering) offered by Muzaffarpur Institute of Technology, Muzaffarpur, Bihar is considered equivalent to BE/ B.Tech Civil Engg
- g. B.Sc Engg (Civil Engineering) offered by Magadh University, Bodhgaya, Bihar is considered equivalent to BE/ B.Tech Civil Engg
- h. B.Tech Civil & Transportation Engineering offered by National Institute of Technology, Agarthala is considered equivalent to BE/ B.Tech Civil Engg.

Regarding validity of Degrees obtained through Vinayaka Missions University, Tamil Nadu under distance mode, I am by direction to inform that Vinayaka Missions University is a deemed to be University. The degrees awarded by the Deemed to be Universities for the programs offered under distance education mode through study centres located in A.P. are not recognized. AICTE, whose approval is mandatory to run professional programs under distance mode, has not granted approval to any University to run Engineering courses under distance mode. Hence such Degree are not recognized. Govt. has also given clarification in this regard vide Ir. no.273/EC/A2/2013 dt: 19.03.2013 (copy enclosed)

This is for favour of information.

Yours faithfully

[Handwritten Signature]
SECRETARY 17/15

