



# PUBLIC SERVICE COMMISSION, UTTAR PRADESH

Advertisement No.  
A-8/E-1/2013  
Date 24-12-2013

## Combined State Engineering Services (General Recruitment) Examination-2013 And Combined State Engineering Services Physically Handicapped (Backlog/Special Recruitment) Examination-2013

Last Date for Receipt of Examination Fees in the Bank : 20<sup>th</sup> January, 2014.

Last Date for Receipt of Application : 24<sup>th</sup> January, 2014.

**"SPECIAL NOTICE :-** Applications will be accepted only when fee is deposited in the Bank upto prescribed last date for fee deposition. If the fee is deposited in bank after prescribed last date for fee deposition, the candidature of the candidate will be rejected and application will not be accepted. Once fee deposited in the bank will not be refunded to the candidates in any condition. It will be responsibility of the candidates to deposit fee in the bank upto prescribed last date for fee deposition and submit the application upto prescribed last date for submission of applications."

**Candidates after submitting their applications through On-Line shall send photocopies of their all academic/required documents regarding their claims alongwith print out of On-Line application forms by means of Personally/Speed Post/Registered Post in any working days latest by dated 03 February, 2014 till 5.00 O' Clock and must ensure for submission in the office of the Commission. For this purpose the candidates are advised to download address slip from Commission's website and to paste it on the envelope containing documents. Till the aforesaid last date if the required relevant documents/records are not received in the Office of the Commission, in the aforesaid condition, the On-Line Application will be rejected. Important Notice- The candidates can send/submit their all academic/required documents as claimed in the On-Line Applications in the Office of the Commission in any working day latest by 03 February, 2014 till 5.00 O' Clock following the aforesaid process after applying the On-Line Application.**

### NECESSARY INFORMATION TO APPLICANTS FILLING THEIR APPLICATIONS THROUGH ON-LINE

This advertisement is also available on the Commission's website <http://uppsc.up.nic.in>. The On-line application system is applicable for applying against this advertisement. Applications sent by any other mode shall not be entertained. Candidates are advised to apply On-line only. In connection with On-line application, candidates are advised to go through thoroughly the instructions given as under and apply accordingly.

1. When the candidate clicks "ALL NOTIFICATION/ADVERTISEMENT DETAILS" on the Commission's website <http://uppsc.up.nic.in> the On-line advertisement, only shall be available. "On-line advertisement" shall be in 3 stages given as below :

1. User instruction
2. View Advertisement
3. Apply

A list of all the advertisement will be displayed in which "On-line System" is applicable. The Instructions for filling "On-line form" have been given in User Instruction. The Candidates desirous to see the advertisement will have to click before 'View Advertisement' to which they are desirous to see. The full advertisement will be displayed. Click on "Apply" for On-line Application.

**On-line application will be completed in three stages :**

**First Stage:-** Basic Registration form (Appendix-2) will be displayed on clicking the 'Candidate Registration' respective to Examination in Appendix-1, in which there shall be type of Recruitment (Select type of Rectt.) General, Special, and General/Special both after filling the form on clicking the 'submit' button the registration of First stage shall be over. Thereafter 'Candidate Registration Acknowledgment' (Appendix-3) shall be displayed which can be printed by Clicking the 'Print' Button.

**Second Stage:-** There shall be two options for depositing the fees which are E-challan and I-collect, which can be deposited in State Bank of India or Punjab National Bank. The candidates having Net Banking facility in any of these two banks may deposit the fees through I-collect. After taking the option of E-Challan or I-Collect Examination fees payment details will be displayed which is on Appendix-4. On selecting the bank to deposit the fees through E-Challan, the E-challan of concerned bank SBI- (Appendix-5) and PNB (Appendix-6) will be displayed in which there shall be Candidate's Registration No., Name, Date of Birth and Fee Amount. The candidates will have to go with E-Challan (in the Bank which is opted by the Candidates themselves) to any branch of the Bank and deposit the fees and take one copy of E-Challan and keep with them safely. On the copy of the E-Challan given by the Bank transaction ID/Journal No. and date shall be mentioned which shall be used at the time of filling the form at third stage.

**Third stage :-** After depositing the fee in the Bank, the candidates two day after on the working day (after 2.00 pm) shall enter information On-line in the format, available on Commission's website by clicking "Submit Application Form". The photo and signature, duly scanned shall be uploaded also. The specimen of the same is given at Appendix-7. The candidate should scan his photograph and signature in the prescribed size (the size will be mentioned at the specified spot in the On-line application). This should also be kept in notice that the photo must be latest passport size. In case the photo and signature, scanned in the prescribed size, are not uploaded, then the On-line system will not accept it. The procedure related to scanning of the photo and signature is laid down in the Appendix-7A. After filling in all entries in the format, the candidates may click "View application form" to see for themselves that all entries and informations are correctly entered and after satisfying themselves should click "Submit" to forward the same to the Commission. It is essential that the candidate should fill all informations On-line correctly according to the instructions given and click the 'Submit' button by the last date prescribed for submission of the application form. If the candidate does not click the "Submit" button, the application shall not be completed finally and the candidate shall be accountable for this. After clicking the 'Submit' button, the candidate may take a print-out of the application (Appendix-7B) to preserve it with them. In the event of any discrepancy, the candidate will be required to submit the said print-out in the office of the Commission, otherwise his/her request shall not be entertained.

2. The Application once submitted, will not be allowed to be modified.

3. **Application Fee :** After filling in the 'Candidate Registration' format of the On-line application, the candidate shall procure the print-out of the E-challan in duplicate. The E-Challan will be used to deposit the fee in any of the branches of State Bank of India or Punjab National Bank by the candidate according to his category. The fee will not be allowed to be deposited by any other mode except E-Challan/I-collect. The above fee, for Examination according to the category, is as under:-

1. Unreserved (General) - Exam fee Rs. 200/- + On-line processing fee Rs. 15/-  
Total = Rs. 215/-
2. Other Backward Class - Exam fee Rs. 200/- + On-line processing fee Rs. 15/-  
Total = Rs. 215/-
3. Scheduled Caste - Exam fee Rs. 80/- + On-line processing fee Rs. 15/- Total = Rs. 95/-
4. Scheduled Tribe - Exam fee Rs. 80/- + On-line processing fee Rs. 15/- Total = Rs. 95/-
5. Handicapped - Exam fee NIL + On-line processing fee Rs. 15/- Total = Rs. 15/-
6. Dependants of the Freedom Fighters - According to the original category mentioned from Sl. Nos. 1 to 4.
7. Ex-Servicemen - According to the original category mentioned from Sl. Nos. 1 to 4.
8. Women - According to the original category mentioned from Sl. Nos. 1 to 4.

4. If the claims of the candidates given in their applications are not found true, they can be debarred not only from the examination in question but from all the future examinations and selections made by the Commission also including other appropriate penalties.

5. If the candidates want some correction or change in their submitted applications, they can submit another fresh complete applications with desired corrections along with prescribed fee within the last notified dates of the advertisement. The application fee deposited with the prior application will neither be returned nor adjusted in any condition. In the aforesaid condition the application form of that Registration No. on which admit card candidate will appear in the examination, will be treated as final. Rest applications will be treated as cancelled.

6. The U.P. Public Service Commission shall hold a Written Examination at various Centres of the Districts mentioned in Appendix-8 of this advertisement. Only such candidates will be called for interview who are declared successful on the basis of above Examination. The selection will be made on the basis of written examination and interview. The date and venue of examination decided by the Commission will be intimated to the candidates by means of their e-Admission certificates. No. of Districts/Centres may increase or decrease according to final No. of applications received.

7. No. of Vacancies : Vacancies are as under :-

### (i) General Recruitment

Sl. No.	Name of Department	Name of Post	Total Vacancies	SC of U.P.	ST of U.P.	OBC of U.P.	General	Branch
1.	Irrigation Deptt.	Asstt. Engg. (Civil)	640	134	13	173	320	Civil
2.	Irrigation Deptt.	Asstt. Engg. (Mechanical)	89	03	-	23	63	Mechanical
3.	Minor Irrigation Deptt.	Asstt. Engg. (Agriculture)	10	-	-	04	06	Agriculture
4.	Minor Irrigation Deptt.	Asstt. Engg. (Civil)	10	02	-	03	05	Civil
5.	Minor Irrigation Deptt.	Asstt. Engg. (Mechanical)	04	-	-	01	03	Mechanical
6.	Rural Engineering Services Deptt.	Asstt. Engg. (Civil)	24	05	-	12	07	Civil
7.	Rural Engineering Services Deptt.	Asstt. Engg. (Electrical)	01	-	-	-	01	Electrical
8.	Land Development and Water Resources Deptt.	Bhoomi Sanrakshan Adhikari/Technical Officer	08	-	-	03	05	Agriculture/Civil
9.	Public Works Deptt. (P.W.D.)	Asstt. Engg. (Civil)	140	-	03	23	114	Civil
10.	Ground Water Deptt.	Asstt. Engg. (Civil)	06	-	-	-	06	Civil
11.	Ground Water Deptt.	Asstt. Engg. (Mechanical)	04	-	-	-	04	Mechanical
<b>Total :</b>			<b>936</b>					

### (ii) Special Recruitment for P.H.

Sl. No.	Name of Department	Name of Post	Total Vacancies	Branch	Sub Category as per G.O. dt. 13.01.2011 & Govt. Letter
1.	Irrigation Deptt.	Asstt. Engg. (Civil)	17	Civil	O.A., O.L., P.B. P.D.

**Pay Scale :** Rs. 15,600-Rs. 39,100/- (Grade Pay Rs. 5400/- Post- Class-II, Gazetted). **Note:-** No. of vacancies may increase or decrease.

8. **Reservation :** The reservation for Scheduled Castes of U.P./Scheduled Tribes of U.P./Other Backward Class candidates of U.P. shall be admissible in accordance with the provisions of relevant Govt. Rules. Accordingly, reservation for category under horizontal as Dependents of Freedom Fighters of U.P. and Women candidates of U.P. shall be admissible on settlement of vacancies. Reservation for PH of U.P. will be permissible for the identified posts.

**Note :** (1) The Candidates claiming the benefit of reservation/age relaxation must obtain, in support of their category a certificate issued by competent authority on the proforma available on the Website & Appendix 8-A of this detailed advertisement and shall submit the same to the Commission when asked for. (2) All Reserved candidates of U.P. must mention their Category/Sub Category in the Application Form. (3) Candidates claiming reservation/Age relaxation in more than one category will be entitled to only one concession whichever is more beneficial to them. (4) The Scheduled Caste, Scheduled Tribes, Other Backward Class and Dependents of Freedom Fighter, PH and women candidates who are not the permanent residents of U.P. shall not be given the benefit of reservation. Such candidates shall be treated as the candidates of the General Category. In case of women candidates the domicile certificate issued from father side only be treated valid.

9. **Conditions of Eligibility (For age relaxation only) : (i) Eligibility in case of Emergency Commissioned/Short Service Commissioned Officers:** In accordance with the provision of the G.O. No. 22/10/1976-Karmik-2-85, dated 30-1-1985 Emergency Commissioned/Short Service Commissioned Officers who have not been released from Army but whose period of Army service has been extended for rehabilitation may also apply for this examination on the following conditions: (A) Such applicants will have to obtain a certificate of the competent authority of Army, Navy, Air Force to the effect that their period of Service has been extended for rehabilitation and no disciplinary action is pending against them. (B) Such applicants will have to submit in due course a written undertaking that in case they are selected for the post applied for, they will get themselves released immediately from the Army Service. The above facilities will not be admissible to Emergency/Short Service Commissioned Officers, if (a) he gets permanent Commission in the Army, (b) he has been released from Army on tendering resignation, (c) he has been released from the Army on grounds of misconduct or physical disability.

10. **MARITAL STATUS :** Male candidates who are married and have more than one wife living and female candidates who have married a person already having a wife, shall not be eligible unless the Hon.' Governor has granted exemption from this condition.

11. **EDUCATIONAL QUALIFICATION : (i) Irrigation Department, U.P.- Essential- Assistant Engineer Civil/Mechanical-** Must possess a degree in Civil or Mechanical Engineering as the case may be, from an Institution or University recognised by the Government; or, be a qualified Associate Member of the Institution of Engineer (India) Civil Engineering Branch or Mechanical Engineering Branch, as the case may be.

**PREFERENTIAL QUALIFICATION :** A candidate who has: (i) served in the Territorial Army for a minimum period of two years, or (ii) obtained a "B" certificate of N.C.C., or (iii) Successfully completed one year training as trainee, shall other things being equal, be given preference in the matter of direct recruitment.

(ii) **Minor Irrigation Department : Essential- Assistant Engineer- Agriculture/Civil/ Mechanical-** Must possess a Bachelor degree in Agricultural/Civil or Mechanical Engineering or a degree recognised by the Government as equivalent thereto or has passed Associate Membership Examination in Section "A" and "B" in Civil or Mechanical Engineering from Institution of Engineers (India).

**Preferential Qualification:** A candidate who has: (i) served in the Territorial Army for a minimum period of two years, or (ii) obtained a "B" certificate of N.C.C. shall other things being equal, be given preference in the matter of direct recruitment.

(iii) **Rural Engineering Services Department : Essential- Assistant Engineer- Civil/Electrical-** Must possess (A) a Bachelor degree in Civil or Electrical Engineering from an Institution or University recognised by the Government; or (B) has passed Associate Membership Examination in Section "A" and "B" in Civil or Electrical or Mechanical Engineering from Institution of Engineers (India).

**Preferential Qualification:** A candidate who has: (i) served in the Territorial Army for a minimum period of two years, or (ii) obtained a "B" certificate of N.C.C., shall other things being equal, be given preference in the matter of direct recruitment.

(iv) **Public Works Department (P.W.D.): Essential- Assistant Engineer- Civil-** Must possess a Bachelor degree in Civil Engineering from a University established by law in India or a qualification recognised by the Government as equivalent thereto.

**Preferential Qualification:** A candidate who has: (i) Served in the Territorial Army for a minimum period of two years, or (ii) obtained a "B" certificate of National Cadet Corps or (iii) Successfully completed one year Training as trainee of U.P. Public Works Department, shall other things being equal be given preference in the matter of direct recruitment.

(v) **Land Development and Water Resources Department: Essential- Bhoomi Sanrakshan Adhikari/ Technical Officer-** Must possess Bachelor degree in Agricultural/Civil Engineering from a University established by law in India or a qualification recognised by the Govt. as equivalent thereto.

**Preferential Qualification:** Diploma in Soil Conservation and Water Management. (i) A candidate who has served in the Territorial Army for a minimum period of two years, OR (ii) obtained a "B" certificate of N.C.C., shall other things being equal, be given preference in the matter of direct recruitment.

(vi) **Ground Water Department, U.P.: Assistant Engineer (Civil/Mechanical)- Essential-** Bachelor's degree in Civil Engineering from a recognised Institution or a University established by law in India or Associate Member of the Institution of Engineers (India) (Civil Engineering Branch)/a Bachelor's degree in Mechanical Engineering from a recognised Institution or a University established by law in India or Associate Member of Institution of Engineers (India) (Mechanical

continued.

Engineering Branch) as the case may be, or a degree recognised by the Government as equivalent thereto.

**Preferential Qualification:** (i) Post-graduate diploma in Hydrology; (ii) Two years' experience of ground water investigation and exploration.

A candidate who has: (i) Obtained a preferential qualification as mentioned above or, (ii) Served in the Territorial Army for a minimum period of two years, or (iii) obtained a "B" certificate of National Cadet Corps, shall other things being equal, be given preference in the matter of direct recruitment.

**12. AGE LIMIT :** (I) Candidates must have attained the age of 21 years and must not have crossed the age of 40 years on July 1, 2013 i.e. they must have not been born earlier than 2nd July, 1973 and not later than July 1, 1992. (II) Upper age limit shall be greater by five years for candidates belonging to Scheduled Castes of U.P., Scheduled Tribes of U.P., Other Backward classes of U.P., skilled players of U.P. of classified games and state Govt. employees of U.P. i.e. they must have not been born before 2nd July, 1968. Upper age limit for Emergency Commissioned Officers/Short Service Commissioned Officers/Ex-Army Personnels of U.P. shall be greater by maximum 5 years only on completion of 5 years service in army. Upper age limit for physically handicapped persons of Society of U.P. will be greater by fifteen years i.e. they must have not been born before 2nd July 1958. The upper age limit in the case of a candidate, who is trainee, shall be greater by one year in irrigation and P.W.D. Deptt..

**13. SOME INFORMATION ABOUT EXAMINATION AND INTERVIEW :** (1) The dates and venue for the examination shall be informed by the Commission later on through e-Admit Card. (II) All original certificates shall be verified at the time of interview. Candidates will also be required to furnish four passport size Photographs, two unattested and two attested by their Head of Department or Head of the Institution where they received education or by a Gazetted Officer at the time of Interview. (III) Candidates serving under the Central or State Government will have to produce 'No Objection Certificate' from their employer at the time of interview issued by the competent authority.

**NOTE:** The candidates must enclose all certificates in support of their claims rendered in the application form for the examination. If they do not enclose all certificates in support of their all claims, their candidature shall be cancelled. The candidates will have to fill up the prescribed Application Form before the interview (Viva-Voce Test).

**14. IMPORTANT INSTRUCTIONS FOR CANDIDATES:** (1) As per decision of the UPPSC a candidate will be liable to be debarred from the examination in question and other examinations and selections upto a maximum period of five years for furnishing any wrong information in his/her application form which cannot be substantiated by relevant documents or for any other malpractice. (2) No change in category, sub-category, Date of Birth etc. is permissible after the receipt of application form in the office of the Commission. In this regard no application for error correction/modification shall be acceptable. (3) The date of birth of the candidates shall be admissible as entered in High School Certificate. The candidate will have to attach his/her High School or Equivalent Examination Certificate with the application form of Examination. No Other Certificate shall be acceptable for Date of Birth and if it is not attached with the application it shall be rejected. (4) The candidates will have to enclose copies of Marksheet, Certificates & Degrees duly attested by any Gazetted Officer or Head of the last institution where education was received in support of their claims of Educational Qualifications. If they do not enclose certificates/documents in support of their claims, the application shall be rejected. (5) The benefit of reservation to the categories of Handicapped persons of society shall be given only on the posts which are identified by the Government for their category. For this benefit the Handicapped persons must produce a certificate of being handicapped in that category on the prescribed proforma issued by prescribed Medical Officer/Specialist and counter signed by the Chief Medical Officer according to Rule 2 of U.P. Public Service (Reservation for physically Handicapped, Dependent of Freedom Fighters and Ex-Serviceman (Amendment) Act, 1997 read with G.O. dated 03 Feb., 2008). The exarmy personnels must be discharged from army upto the last date prescribed for receipt of applications. (6) Date, time and venue etc. of examination along with Roll No. will be communicated to the candidate through e-Admit Cards, Candidates will have to appear at the centre allotted to them by the Commission. No change in centre is permissible. (7) The candidature of such candidates who are subsequently found ineligible according to the terms laid down in advertisement will be cancelled and their any claim for the Examination will not be entertained. The decision of the Commission regarding eligibility of the candidates shall be final. (8) The Application /candidature will be rejected/cancelled if the application is not submitted on prescribed form, date of birth is not mentioned or wrong date of birth is mentioned, overage, under age, not fulfilling the minimum educational qualifications, application received after last date and no signature under declaration in the format. (9) The Commission may admit the candidates provisionally after summary checking of the application but if it is found at any stage that applicant was not eligible or that his/her application should have been rejected or was not entertainable initially, his/her candidature will be rejected and if the candidate is selected, the recommendation of the Commission for appointment shall be withdrawn. (10) The Commission reserves the right of cancelling the candidature of any candidate found indulging in any malpractice i.e. copying in examination hall or indiscipline, misbehaviour or canvassing for his/her candidature. On violation of these instructions, the candidates may be debarred from this examination as well as future examinations. In this regard the decision of the Commission shall be final. (11) In all communications to the Commission, the candidates must mention the name of examination, advertisement no registration no., date of birth, father's name and also the Roll Number, if communicated. (12) Candidates selected for appointment will have to undergo Medical Examination as required under the Rules. (13) Approximately 3 times candidates shall be called for interview on the basis of examination. It is essential for the candidates to appear in the interview as the place of candidates will depend on aggregate of marks obtained in written examination and interview. Preferences for Deptt. wise posts will be asked at the time of interview which will be treated final and no change, therein will be admitted later. (14) The candidates who are appearing in the Graduation Examination need not to apply, because they are not eligible. (15) While filling the answer sheet the candidates "must use Black Ball Point Pen only". Do not use any other pen or pencil in any condition. (16) The information filled in the "Answer Sheet" must not be erased by Whitener, blade or rubber etc.. (17) For the question paper of two hours, the examination timings is 9.30 A.M. to 11.30A.M. (1st session) and 2.30 P.M. to 4.30 P.M. (IInd session). For the question paper of 3 hours, the examination timing is 9.00 to 12.00 A.M. (1st session) and 2.00 P.M., to 5.00 P.M. (IInd session).

**GENERAL INSTRUCTIONS**

- In no circumstances, applications shall be accepted after the last prescribed date and time. Applications found without requisite informations and without photograph and signature, even when received in time, will be summarily rejected.
- In the On-line system the candidates must click the submit Button by the Last Date & Time. They must take the print out and keep it safely. In any discrepancy they will have to produce the print out otherwise no request shall be entertained.
- Those candidates, willing to take the benefit of the reservation/age relaxation must obtain a certificate, issued by the competent authority, in support of the reserved category, in the prescribed format printed in this detailed advertisement (**Appendix 8-A**) and submit the same to the Commission, whenever required to do so. Those claiming more than one reservation/Age relaxation will be given only one such concession, which will be more beneficial. The candidates who are not originally domiciled of U.P. belonging to SC, ST, O.B.C., dependants of freedom fighters, P.H. and women are not entitled to benefit of reservation. Such candidates will be treated as general candidates. In case of the women candidates, the certificate issued from father side will be treated valid.
- The Commission do not advise to candidates about their eligibility. Therefore, they should carefully read the advertisement and when satisfied about their eligibility conditions of the advertisement, then only apply. The candidates must possess all the requisite qualifications till the last date for submitting the applications.
- In the category of dependants of the freedom fighters only sons, daughters, grandsons and grand daughters (son's son and daughter) are covered. Only such relationships with the freedom fighters are not adequate but the candidate should remain actually dependant of the freedom fighter. Drawing the attention of the candidates towards Govt. orders dated 22.01.1982, 08.03.1983 and Govt. Order No. 3014, Personnel-2, 1982 dated 18.10.1982 read with Govt. Order No. 6/1972 Personnel-2, 1982 dated 15.01.1983, it is advised that now the candidates must obtain the reservation, certificate from the District Magistrate in terms of Govt. Order No. 4/3/82-Ka-2-97 dated 26.12.1997 in the prescribed format and submit the same.
- In the event of involvement of a candidate in the concealment of any important information, pendency of any case/criminal case, conviction, more than a husband or wife being alive, submission of facts in a distorted manner malpractice, canvassing for selection etc., the Commission reserves the right to reject the candidature and debar from appearing in the

examination in question and all future other examinations and selections.

7. In case the candidates feel any problem in the "On-line Application" they may get their problem resolved by contacting over phone or Website clicking "Contact us".

8. The name of Districts for Examination are available in the advertisement in **Appendix-8**. In the same way the plan of Examination and the syllabus on **Appendix-9**.

**Note: "Detailed instructions to fill in the On-line Applications"**, have been given from Appendix 1 to 7B. Specimen are given to make candidates familiar with the procedure.

**Detailed Application Form:**

At the top of the page there is a 'Declaration' for the candidates are advised to go through the contents of the **Declaration** carefully. Candidate has the option to either agree or disagree with the contents of Declaration by clicking on 'I Agree' or 'I do not agree' buttons. In case the candidate opts to disagree, the application will be dropped and the procedure will be terminated. Accepting to agree only will submit the candidates Online Application.

**Notification Details**

This section shows information relevant to Notification.

**Personal Details**

This section shows information about candidate personnel details i.e. Registration Number, Candidate name, Father/Husband name, Gender, DOB, UP domicile, Category, Marital status, email and contact number.

**Other Details of candidate**

Other details of candidate shows the information details about UP Freedom Fighter, Ex Army, service duration and your physical deformity.

**Education & Experience Details**

It shows your educational and experience details.

**Candidate address, photo & signature details**

Here you will see your complete communication address and photo with your signature.

**Declaration segment**

At the bottom of the page there is a 'Declaration' for the candidates. Candidates are advised to go through the contents of the **Declaration** carefully.

After filling all above particulars there is provision for preview your detail before final submission of application form on clicking on "Preview" button.

Preview page will display all facts/particulars that you have mentioned on entry time if you are sure with filled details then click on "Submit" button to finally push data into server with successfully submission report that you can print.

Otherwise using "Back" button option you can modify your details.

**[CANDIDATES ARE ADVISED TO TAKE A PRINT OF THIS PAGE BY CLICKING ON THE "Print" OPTION AVAILABLE]**

**For Other information:**

For other information candidates are advised to select desired option in 'Home Page' of Commission's website <http://uppsc.up.nic.in> in CANDIDATE SEGMENT

CANDIDATE SEGMENT	
All Notification / Advertisements	
Candidate Registration (First State)	
Candidate E-Challan/I-Collect (Second State)	
Submit Application Form (Third State)	
View Application Status	
List of Applications Having photo related Objections	
Download Forms for Eligibility Checking	
Download Interview Letter	
Duplicate Regi. Slip & Application form	
Download Syllabus	

**Regarding application :**

- On clicking "View Application status" option in Candidate Segment page you can see current status of candidate.
- On clicking "Result" option in Candidate Segment page candidate can see result status of periodically.
- "Interview/Exam Schedule" option in Candidate Segment page candidate can see interview and examination schedule details periodically.
- On clicking "Key Answer Sheet" candidate can download key answer sheet.
- On clicking "Admit Card/Hall Ticket" candidate can download their Admit Card using with some basic credential of candidate.
- On clicking "List of Rejected Candidate" candidate can view rejected candidate list.
- On clicking "Syllabus" candidate can view syllabus of particular examination.

(Candidates applying on-line need NOT send hard copy of the On-line Application filled by them on-line or any other document/certificate/testimonial to the Uttar Pradesh Public Service Commission. However they are advised to take printout of the On-line Application and retain it for further communication with the UPPSC.) (The Candidates applying for the examination should ensure that they fulfill all eligibility conditions for admission to examination. Their admission at all the stages of the examination will be purely provisional subject to satisfying the prescribed eligibility conditions.) UPPSC takes up verification of eligibility conditions with reference to original documents at subsequent stages of examination process.

**LAST DATE FOR RECEIPT OF APPLICATIONS :** On-line Application process must be completed (including filling up of Part-I, Part-II and Part-III of the Form) before last date of form submission according to Advertisement, after which the web. Link will be disabled.

**Appendix-1**

All Notifications/Advertisements Details

Candidate Home Page-Notifications/Advertisements

Online Advertisement Offline Advertisement  
**Advertisement Applicable for online Submission Only**

Name	Selection Type	Advt. Number, Date	Start Date	Fee Deposition Last Date	Form Submission Last Date		
संमिलित राज्य अभियंत्रण सेवा परीक्षा	सामान्य	A-8/E-1/2013	01/01/2013	01/01/2013	30/03/2013	User Instructions	View Advertisement Apply

Combined State Engineering Services (General Recruitment) Examination-2013 And  
 Combined State Engineering Services Physically Handicapped  
 परीक्षा का नाम : (Backlog/Special Recruitment) Examination-2013 , विज्ञापन संख्या : A-8/E-1/2013  
 विज्ञापन प्रारंभ तिथि : , चयन : [सामान्य]

आयु गणना की तिथि : 01/07/2013

Directorate/Department Name	Post/Vacancy Name, Deptt. No.	Nature	Pay Scale	Lower Age	Upper Age	Total No. Of Post	Qualification	Opt Option
PCS-Pre 2013	PCS-Prelim. - 2013	...	...	21	40	163	View	Candidate Registration

**Appendix-2**

Candidate Home Page-Notifications/Advertisements-Candidate Basic Registration

All Notifications/Advertisements

Combined State Engineering Services (General Recruitment) Examination-2013 And  
 Combined State Engineering Services Physically Handicapped  
 (Backlog/Special Recruitment) Examination-2013 - A-8/E-1/2013/PCS 2013

Advertisement No : A-8/E-1/2013  
 Directorate/Department : PCS-Pre. Exam - 2013  
 Post Name : PCS-Prelim. Exam - 2013  
 Date for Calculating Age : 01/07/2013

Select Type of Recruitment : सामान्य सामान्य

Personnel Information

- Candidate Name :
- Father/Husband Name :
- Are you Domicile of UP? :
- Category :
- Date Of Birth (DD/MM/YYYY) :
- Gender :
- Are You Married? :
- Contact Number :
- Email ID :

Essential Qualification Details

Sr. No.	Name	Acquired(Y/N)	Is Grade System	Marks Obtained	Total Marks	Percentage
1.	आयु जे तिथि द्वारा स्थापित किने विधिवत/आयु से ज्यादा की उमर की वास्तविक आयु द्वारा इनके समावेश मान्यता प्राप्त की जायेगी	No	No			

Enter Verification Code :

Submit Cancel Close

continued..

Appendix-3

**Appendix-3**  
Candidate Registration Acknowledgement  
Candidate Home Page-Notifications/Advertisements-Registration Successfully

Uttar Pradesh Public Service Commission  
Registration Slip  
Applied for  
Combined State Engineering Services (General Recruitment) Examination-2013 And Combined State Engineering Services Physically Handicapped (Backlog/Special Recruitment) Examination-2013 -A-8/E-1/2013

You have been registered successfully.  
Please note down your Registration Number for future Reference.  
Candidate Registration No.: **1012000084**

Advertisement / Notification No.: A-8/E-1/2013  
Candidate Name: SANDEEP JAISWAL  
Father's / Husband's Name: P. JAISWAL  
Date Of Birth: 01/01/1980  
Are you Domicile of UP?: Yes  
Category: सामान्य  
Gender: मर्  
Fee [in INR]: NIL

Note :-  
(1). Please Note Down Candidate Registration No. **1012000084** for Future communication with UPPSC.  
(2). Your Application will be treated as **incomplete** unless accomplished by application form fee and uploading of photograph with signature & the detailed application form submission.  
(3). Submission of detailed application form will be allowed on **next working day from 2:00 PM onwards** after the deposition of fee through E-Challan in the prescribed bank.  
(4). E-Challan generation from the website will be valid for fee deposition in the prescribed bank upto the last date to fee deposition given in the advertisement only in banking hours.  
(5). Detailed application form submission will be **stopped after 23:59 hrs** of the last date of form submission given in the advertisement.  
(6). **Candidates whose fee amount is NIL in registration slip can submit the detailed application form at the same time without generating E-challan.**

\*Please do submission at an early date to avoid delay/problems in submission due to heavy network traffic on the last date.  
(Date : 05/02/2013, Time : 12:02:47)

No need to deposit the fee You can directly submit detailed notification form.

Submit Application Form

Select any one of the Payment Mode for Fee Deposition  
 E-Challan  I-Collect

Select any one Bank Name  
Please Select...

Click here to Generate E-Challan

Appendix-4

**Appendix-4**  
Examination Fee's Payment Details

Candidate Registration No. 1012000109  
Date of Birth (DD/MM/YYYY): DAY MONTH YEAR

Select any one of the Payment Mode for Fee Deposition  
 E-Challan  I-Collect

Select any one Bank Name  
State Bank Of India

Enter Verification Code : Pkg5h Pkg5h

Click here to Generate E-Challan

After taking the Print out of this generated e-Challan, approach to nearest branch of the selected Bank & deposit the fee in cash only. Please ensure that the concerned bank person has written Bank Transaction ID/Journal number and the Transaction Date in the appropriate Place in candidate copy of the e-challan. After depositing the required fee in the Bank.  
Candidate will be able to Submit the Detailed Application Form on the Next working Day after 2:00 PM.

Appendix-5

**Appendix-5**  
Bank E-Challan

E-challan ( ई-चालान )  
भारतीय स्टेट बैंक  
State Bank Of India  
शेखर अमोघ, 3090  
Public Service Commission, Uttar Pradesh  
Fee Details

Fee Deposition Last Date: 30/03/2013  
Cash Only

Account Number : 31340979155  
Deposit only through : Fee Collection -> UPSC (Screen No. 7125)  
Refer: Lucknow Circle - Circular no 93 dated 01.09.2010  
AND Corporate Centre - Circular no. 551 dated 06.10.2010

Candidate Registration/Challan No. 1012000199  
Name of Candidate SANDEEP KUMAR  
Date Of Birth (dd/mm/yyyy) 01/01/1980  
Fee Amount in figure (Rs.) Rs. 115/-  
Amount In Word Rs. One Hundred Fifteen only  
Bank Transaction ID/Journal No. \*  
Transaction Date \*  
Bank Officer Signature & Stamp \* Candidate Signature

भारतीय स्टेट बैंक  
State Bank Of India  
शेखर अमोघ, 3090  
Public Service Commission, Uttar Pradesh  
Fee Details

Fee Deposition Last Date: 30/03/2013  
Cash Only

Candidate Registration/Challan No. 1012000199  
Name of Candidate SANDEEP KUMAR  
Date Of Birth (dd/mm/yyyy) 01/01/1980  
Fee Amount in figure (Rs.) Rs. 115/-  
Amount In Word Rs. One Hundred Fifteen only  
Bank Transaction ID/Journal No. \*  
Transaction Date \*  
Bank Officer Signature & Stamp \* Candidate Signature

\* Mandatory to be filled by bank staff.

Appendix-6

**Appendix-6**  
Bank E-Challan

E-challan ( ई-चालान )  
पंजाब नैशनल बैंक  
Punjab National Bank  
शेखर अमोघ, 3090  
Public Service Commission, Uttar Pradesh  
Fee Details

Fee Deposition Last Date: 30/03/2013  
Cash Only

Entry in Finacle through 'PAYFEE' menu only, Institute ID : UPPSC

Candidate Registration/Challan No. 1012000199  
Name of Candidate SANDEEP KUMAR  
Date Of Birth (dd/mm/yyyy) 01/01/1980  
Fee Amount in figure (Rs.) Rs. 115/-  
Amount In Word Rs. One Hundred Fifteen only  
Bank Transaction ID/Journal No. \*  
Transaction Date \*  
Bank Officer Signature & Stamp \* Candidate Signature

पंजाब नैशनल बैंक  
Punjab National Bank  
शेखर अमोघ, 3090  
Public Service Commission, Uttar Pradesh  
Fee Details

Fee Deposition Last Date: 30/03/2013  
Cash Only

Candidate Registration/Challan No. 1012000199  
Name of Candidate SANDEEP KUMAR  
Date Of Birth (dd/mm/yyyy) 01/01/1980  
Fee Amount in figure (Rs.) Rs. 115/-  
Amount In Word Rs. One Hundred Fifteen only  
Bank Transaction ID/Journal No. \*  
Transaction Date \*  
Bank Officer Signature & Stamp \* Candidate Signature

\* Mandatory to be filled by bank staff.

Appendix-7

**Appendix-7**  
Submit detailed application form & scanned photo with signature

Candidate Home Page-Submit Application Form

Detailed Application Form Submission will be allowed only after 2:00 PM on the next working Day since from the Fee deposition date in the Bank.

Candidate Registration No. 1012000084  
Fee Deposition through E-Challan  Fee amount is NIL

Bank Transaction Details  
Bank Name: Please Select...  
Transaction ID/Journal No.:  
Transaction Date: DAY MONTH YEAR Proceed

Please enter personal information and upload scanned file

Personnel Information  
Date Of Birth: 01 Jan 1980  
Gender: पुरुष  
Are you Domicile of UP?: Yes  
Category: सामान्य

Upload Scanned Photo with Signature File  
Select Scanned File: C:\Users\Administrator\... Browse...

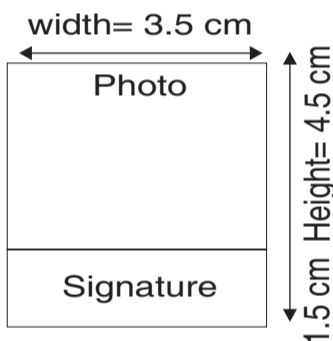
Enter Verification Code: QPAGW

Please enter personal information and upload scanned file.  
Submit Cancel

Precautions while entering Transaction ID/Journal Number  
SBI - Please remove characters like '0', 'J' in the prefix of TRANSACTION ID/JOURNAL NUMBER (if found) Provided by SBI Branch then enter only remaining digits. ie. 019951077 or 0019951077 or J19951077 or J019951077 pl. enter only 19951077  
PNB - Please remove character like '-' from the TRANSACTION ID/JOURNAL NUMBER (if found) Provided by PNB Branch then enter only remaining characters and digits. ie. M-416965 pl. enter only M416965

Appendix-7A

- The Procedure relating to upload Photo & Signature.
- Guide Lines for Scanning Photograph with Signature**
- Paste the Photo on any white paper as per the above required dimensions. Sign in the Signature Space provided. Ensure that the signature is within the box.
  - Scan the above required size containing photograph and signature. Please do not scan the complete page.
  - The entire image (of size 3.5 cm by 6.0 cm) consisting of the photo along with the signature is required to be scanned, and stored in \*.jpg, .jpeg, .gif, .tif, .png format on local machine.
  - Ensure that the size of the scanned image is not more than 50 KB.
  - If the size of the file is more than 50 KB, then adjust the settings of the scanner such as the DPI resolution, no. colours etc., during the process of scanning.
  - The applicant has to sign in full in the box provided. Since the signature is proof of identity, it must be genuine and in full; initials are not sufficient. Signature in CAPITAL LETTERS is not permitted.
  - The signature must be signed only by the applicant and not by any other person.
  - The signature will be used to put on the Hall Ticket and wherever necessary. If the Applicant's signature on answer script, at the time of the examination, does not match the signature on the Hall Ticket, the applicant will be disqualified.
- Sample Image & Signature :-



Appendix-7B

**Appendix-7B**  
Submit Application Form for Preliminary Examination

Candidate Home Page-Submit Application Form

Notification No. A-8/E-1/2013  
Selection Type: REPT-2  
Directorate/Department: PCS-Pre Exam 2013  
Post Name: PCS-Prelim. Exam 2013

1. Applicant Registration No.: 1012000084  
2. Candidate Name: SANDEEP JAISWAL  
3. Father/Husband Name: P. JAISWAL  
4. Gender: Male  
5. Date of Birth: 01/01/1980  
6. Are you Domicile of UP?: Yes  
7. Are you Married?: No  
8. Contact No.:  
9. Email ID:

10. Bank Name: 0  
11. Transaction ID: 0  
12. Transaction Date: 0/0

13. Are you Dependent of UP Freedom Fighter? No  
14. Are you UP Ex. Army? No  
15. Are You Handicap of UP? No  
15.1 Are you Blind Or Have Vision problem? No  
15.2 Are you Deaf or Have hearing problem? No  
15.3 Have you any physical Problem? Yes

16. Are You Skilled Player Of UP? No

17. Essential Qualifications & Marks According to Advertisement

Sr. No.	Qualification	Acquired	In Grade System	Obtain Marks	Total Marks	Percentage
1	स्नातक	Yes	No	123.00	150.00	82.00

18. Are You Graduate? Yes  
If Yes, Please Select Subject Name -> You are Selected these Subjects:  
1. अर्थशास्त्र  
2. इतिहास  
3. अर्थशास्त्र

19. Are You Post Graduate? Yes  
If Yes, Please Select Subject Name -> You are Selected these Subjects:  
1. अर्थशास्त्र

20. Other Essential Qualification -> Yes  
If Yes, Please Select Subject Name -> You are Selected these Subjects:  
1. अर्थशास्त्र

21. Are You Know Hindi in Devnagari Lipi? Yes

23. Address: lucknow  
23.1 House no /Village: 123  
23.2 Street No./PO: 1  
23.3 City Name: thakurganj  
23.4 State Name: उत्तर प्रदेश  
23.5 District Name: अजमेर  
23.6 PIN: 354365

24. Photo & Signature

I accept the following declaration : Yes

1. I here by declare that I have read all term & condition according advertisement and I accept it.  
2. I here by declare that all the entries/statements made in this application are true, complete and correct to the best of my knowledge and belief.  
3. In the event of any information being found false or incorrect or ineligibility being detected before or after selection, the commission can take action against me as per rule in case it is detected that I have misled UPPSC on any issue then I will solely responsible for all penal consequences thereof.

Type Verification Code as displayed in Image :- SCZg

continued.

## Successful Confirmation of Application Form

Candidate Home Page-Submit Application Form-Successful Confirmation of Application Submission

Print Application ID Slip

Your Application has been submitted successfully.  
Please note down your Application ID for further Reference.

A-8/E-1/2013 / PCS Exam 2013

Application ID	200047101000001
Registration Number	10120000084
Candidate Name	SANDEEP JAISWAL
Date of Birth	01/01/1980

Note:- Filled in Application Form has been received in the Commission's office but its Acceptance is subject to the verification process pertaining to the Candidates Age eligibility as per the post/objections related to photo uploading/Rejected/Accepted etc. So Please Visit the website again to view the application status after the last date of form submission on the website, under the option "View Application Status" for ensuring the Acceptance of Application form.

Click here to download complete Application Form (Date : 05/02/2013, Time : 12:06:42)

## Appendix-8

The name of the districts in which the Examination will be held are Allahabad and Lucknow.

## Appendix-8A

## उ०प्र० की अनुसूचित जाति तथा अनुसूचित जनजाति के लिये जाति प्रमाण-पत्र

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी..... सुपुत्र/सुपुत्री श्री..... निवासी ग्राम ..... तहसील ..... जिला ..... उत्तर प्रदेश राज्य की ..... जाति के व्यक्ति हैं जिसे संविधान (अनुसूचित जाति) आदेश, 1950 (जैसा कि समय-समय पर संशोधित हुआ)/ संविधान (अनुसूचित जनजाति, उत्तर प्रदेश) आदेश, 1967 के अनुसार अनुसूचित जाति/अनुसूचित जनजाति के रूप में मान्यता दी गई है।  
श्री/श्रीमती/कुमारी ..... तथा अथवा उनका परिवार उत्तर प्रदेश के ..... ग्राम ..... तहसील ..... जिला ..... में सामान्यतया रहता है।

स्थान ..... हस्ताक्षर .....  
दिनांक ..... पूरा नाम .....  
मुहर ..... पद नाम .....

जिलाधिकारी/अतिरिक्त जिलाधिकारी/सिटी मजिस्ट्रेट/परगना मजिस्ट्रेट/तहसीलदार/  
अन्य वेतन भोगी मजिस्ट्रेट यदि कोई हो/जिला समाज कल्याण अधिकारी

## उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिए जाति प्रमाण-पत्र

## (प्रारूप-1)

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... सुपुत्र/सुपुत्री श्री ..... निवासी ग्राम ..... तहसील ..... जिला ..... उत्तर प्रदेश राज्य की ..... पिछड़ी जाति के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक सेवा (अनुसूचित जातियों, अनुसूचित जनजातियों तथा अन्य पिछड़े वर्गों के लिये आरक्षण) अधिनियम, 1994 (यथासंशोधित) की अनुसूची-एक के अन्तर्गत मान्यता प्राप्त है।

यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... पूर्वोक्त अधिनियम, 1994 (यथासंशोधित) की अनुसूची-दो (जैसा कि उत्तर प्रदेश लोक सेवा) (अनुसूचित जातियों, अनुसूचित जनजातियों और अन्य पिछड़े वर्गों के लिये आरक्षण) (संशोधन) अधिनियम, 2001 द्वारा प्रतिस्थापित किया गया है एवं जो उत्तर प्रदेश लोक सेवा (अनुसूचित जातियों, अनुसूचित जनजातियों और अन्य पिछड़े वर्गों के लिये आरक्षण) (संशोधन) अधिनियम, 2002 द्वारा संशोधित की गयी है, से अछादित नहीं है। इनके माता-पिता की निरंतर तीन वर्ष की अवधि के लिये सकल वार्षिक आय पाँच लाख रुपये या इससे अधिक नहीं है तथा इनके पास धनकर अधिनियम, 1957 में यथा विहित छूट सीमा से अधिक सम्पत्ति भी नहीं है।

श्री/श्रीमती/कुमारी ..... तथा/अथवा उनका परिवार उत्तर प्रदेश के ग्राम ..... तहसील ..... जिला ..... में सामान्यतया रहता है।

स्थान ..... हस्ताक्षर .....  
दिनांक ..... पूरा नाम .....  
मुहर ..... पद नाम .....

जिलाधिकारी/अतिरिक्त जिलाधिकारी/सिटी मजिस्ट्रेट/परगना मजिस्ट्रेट/तहसीलदार।

## उ.प्र. के विकलांगों के लिए प्रमाण-पत्र

## CERTIFICATE FOR PHYSICALLY HANDICAP OF U.P.

NAME & ADDRESS OF THE INSTITUTE/HOSPITAL ..... Date .....

Certificate No. ....

Date .....

## DISABILITY CERTIFICATE

This is to certify that Shri/Smt/Kum..... son/wife/daughter of Shri ..... age ..... Sex ..... identification mark (s) ..... is suffering from permanent disability of following category.

## A. Locomotor or cerebral palsy:

(i) BL-Both legs affected but not arms.

(ii) BA-Both arms affected

(a) Impaired reach (b) Weakness or grip

(iii) BLA-Both legs and both arms affected

(iv) OL-One leg affected (right or left)

(a) Impaired reach

(b) Weakness of grip

(c) Ataxic

(v) OA-One arm affected

(a) Impaired reach

(b) Weakness of grip

(c) Ataxic

(vi) BH-Stiff back and hips (Cannot sit or stood)

(vii) MW- Muscular weakness and limited physical endurance

B. Blindness or Low Vision: (i) B-Blind

(ii) PB-Partial Blind

C. Hearing impairment:

(i) D-Deaf (ii) PD-Partially Deaf

(Delete the category whichever is not applicable)

2. This condition is progressive/non-progressive/likely to improve/not likely to improve. Re-assess of this case is not recommended/is recommended after a period of ..... year ..... months.

3. Percentage of disability in his/her case is ..... percent.

4. Sh./Smt./Kum. .... meets the following physical requirements discharge of his/her duties:

(i) F-can perform work by manipulating with fingers.	Yes/No
(ii) PP-can perform work by pulling & pushing.	Yes/No
(iii) L-can perform work by lifting.	Yes/No
(iv) KC-can perform work by kneeling and crouching.	Yes/No
(v) B-can perform work by bending.	Yes/No
(vi) S-can perform work by sitting.	Yes/No
(vii) ST-can perform work by standing.	Yes/No
(viii)W-can perform work by walking	Yes/No
(ix) SE-can perform work by seeing.	Yes/No
(x) H-can perform work by hearing/speaking.	Yes/No
(xi) RW-can perform work by reading and writing.	Yes/No

(Dr. ....)  
Member  
Medical Board(Dr. ....)  
Member  
Medical Board(Dr. ....)  
Chairperson  
Medical Board  
Countersigned by the  
Medical Superintendent/  
CMO/HQ Hospital  
(with seal)

\*Strike out which is not applicable.

## उ.प्र. के स्वतंत्रता संग्राम सेनानियों के आश्रितों के लिए प्रमाण-पत्र

## प्रमाण-पत्र

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... निवासी ..... ग्राम ..... तहसील ..... जिला ..... उत्तर प्रदेश लोक सेवा (शांतिरूप से विकलांग, स्वतंत्रता संग्राम सेनानियों के आश्रित और भूतपूर्व सैनिक के लिए आरक्षण) अधिनियम 1993 के अनुसार स्वतंत्रता संग्राम सेनानी हैं और श्री/श्रीमती/कुमारी (आश्रित) ..... पुत्र/पुत्री/पौत्र/पौत्री उपरार्कित अधिनियम 1993 के ही प्रावधानों के अनुसार उक्त श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी) ..... के आश्रित हैं।

स्थान ..... हस्ताक्षर .....  
दिनांक ..... पूरा नाम .....  
मुहर .....  
जिलाधिकारी .....  
सील .....

कुशल खिलाड़ियों के लिये प्रमाण-पत्र जो उ.प्र. के मूल निवासी हैं  
शासनादेश संख्या-22/21/1983-कार्मिक-2 दिनांक 28 नवम्बर, 1985

## प्रमाण-पत्र के फार्म - 1 से 4 प्रारूप -1

(मान्यता प्राप्त क्रीड़ा/खेल में अपने देश की ओर से अन्तर्राष्ट्रीय प्रतियोगिता में भाग लेने वाले खिलाड़ी के लिये) सम्बन्धित खेल की राष्ट्रीय फेडरेशन/राष्ट्रीय एसोसिएशन का नाम ..... राज्य सरकार की सेवाओं/पदों पर नियुक्ति के लिए कुशल खिलाड़ियों के लिए प्रमाण-पत्र

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... आत्मज/पत्नी/आत्मजा श्री ..... निवासी ..... पूरा पता ..... ने दिनांक ..... से दिनांक ..... तक ..... (स्थान का नाम) में आयोजित ..... (क्रीड़ा/खेल-कूद का नाम) की प्रतियोगिता/टूर्नामेन्ट में देश की ओर से भाग लिया।

उनके टीम के द्वारा उक्त प्रतियोगिता/टूर्नामेन्ट में ..... स्थान प्राप्त किया गया। यह प्रमाण-पत्र राष्ट्रीय फेडरेशन/राष्ट्रीय एसोसिएशन/(यहाँ संस्था का नाम दिया जाये) ..... में उपलब्ध रिकार्ड के आधार पर दिया गया है।

स्थान ..... हस्ताक्षर.....  
दिनांक ..... नाम.....  
पद.....  
संस्था का नाम.....  
मुहर.....

नोट : यह प्रमाण-पत्र नेशनल फेडरेशन/नेशनल एसोसिएशन के सचिव द्वारा व्यक्तिगत रूप से किये गये हस्ताक्षर होने पर ही मान्य होगा।

## प्रारूप - 2

(मान्यता प्राप्त क्रीड़ा/खेल में अपने प्रदेश की ओर से राष्ट्रीय प्रतियोगिता में भाग लेने वाले खिलाड़ी के लिये) सम्बन्धित खेल की प्रदेशीय एसोसिएशन का नाम ..... राज्य सरकार की सेवाओं/पदों पर नियुक्ति के लिए कुशल खिलाड़ियों के लिए प्रमाण-पत्र

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... आत्मज/पत्नी/आत्मजा श्री ..... निवासी (पूरा पता) ..... ने दिनांक ..... से दिनांक ..... तक ..... में (क्रीड़ा/खेल-कूद का नाम) की प्रतियोगिता (टूर्नामेन्ट स्थान का नाम) ..... आयोजित राष्ट्रीय ..... में (क्रीड़ा/खेल-कूद का नाम) की प्रतियोगिता/टूर्नामेन्ट में देश की ओर से भाग लिया।

उनके टीम के द्वारा उक्त प्रतियोगिता/टूर्नामेन्ट में ..... स्थान प्राप्त किया गया। यह प्रमाण-पत्र ..... (प्रदेशीय संघ का नाम) में उपलब्ध रिकार्ड के आधार पर दिया गया है।

स्थान ..... हस्ताक्षर.....  
दिनांक ..... नाम.....  
पद.....  
संस्था का नाम.....  
पता.....  
मुहर.....

नोट : यह प्रमाण-पत्र प्रदेशीय खेल-कूद संघ के सचिव द्वारा व्यक्तिगत रूप से किये गये हस्ताक्षर होने पर ही मान्य होगा।

## प्रारूप - 3

(मान्यता प्राप्त क्रीड़ा/खेल में अपने विश्वविद्यालय की ओर से अन्तर्विश्वविद्यालय प्रतियोगिता में भाग लेने वाले खिलाड़ी के लिये) विश्वविद्यालय का नाम ..... राज्य स्तर की सेवाओं/पदों पर नियुक्ति के लिए कुशल खिलाड़ियों के लिए प्रमाण-पत्र

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... आत्मज/पत्नी/आत्मजा श्री ..... निवास (पूरा नाम) ..... विश्वविद्यालय की कक्षा ..... के विद्यार्थी ने दिनांक ..... से दिनांक ..... तक ..... (स्थान का नाम) में आयोजित अन्तर्विश्वविद्यालय ..... (क्रीड़ा/खेल-कूद का नाम) प्रतियोगिता/टूर्नामेन्ट में ..... विश्वविद्यालय की ओर से भाग लिया। उनके टीम के द्वारा उक्त प्रतियोगिता/टूर्नामेन्ट में ..... स्थान प्राप्त किया गया। यह प्रमाण-पत्र डीन ऑफ स्पोर्ट्स अथवा इंचार्ज खेल कूद ..... विश्वविद्यालय में उपलब्ध रिकार्ड के आधार पर दिया गया है।

स्थान ..... हस्ताक्षर.....  
दिनांक ..... नाम.....  
पद.....  
संस्था का नाम.....  
मुहर.....

नोट : यह प्रमाण-पत्र विश्वविद्यालय के डीन ऑफ स्पोर्ट्स या इंचार्ज खेल-कूद द्वारा व्यक्तिगत रूप से किये गये हस्ताक्षर होने पर ही मान्य होगा।

## प्रारूप - 4

(मान्यता प्राप्त क्रीड़ा/खेल में अपने स्कूल की ओर से राष्ट्रीय खेल-कूद में भाग लेने वाले खिलाड़ी के लिये) डाइरेक्ट्रेट ऑफ पब्लिक इन्सट्रक्शन्स/निदेशक, शिक्षा, उत्तर प्रदेश ..... राज्य स्तर की सेवाओं/पदों पर नियुक्ति के लिए कुशल खिलाड़ियों के लिए प्रमाण-पत्र

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... आत्मज/पत्नी/आत्मजा श्री ..... निवासी (पूरा पता) ..... में ..... स्कूल में कक्षा ..... के विद्यार्थी ने दिनांक ..... से दिनांक ..... तक ..... (स्थान का नाम) में आयोजित स्कूलों के नेशनल गेम्स की (क्रीड़ा/खेल-कूद का नाम) प्रतियोगिता/टूर्नामेन्ट में ..... स्कूल की ओर से भाग लिया। उनके टीम के द्वारा उक्त प्रतियोगिता/टूर्नामेन्ट में ..... स्थान प्राप्त किया गया।

यह प्रमाण-पत्र डाइरेक्ट्रेट ऑफ पब्लिक इन्सट्रक्शन्स/शिक्षा में उपलब्ध रिकार्ड के आधार पर दिया गया है। स्थान ..... हस्ताक्षर.....  
दिनांक ..... नाम.....  
पद.....  
संस्था का नाम.....  
मुहर.....

नोट : यह प्रमाण-पत्र निदेशक/या अतिरिक्त/संयुक्त या उपनिदेशक डाइरेक्ट्रेट ऑफ पब्लिक इन्सट्रक्शन्स/शिक्षा ..... द्वारा व्यक्तिगत रूप से हस्ताक्षर होने पर मान्य होगा।

## परिशिष्ट-9

## परीक्षा योजना एवं पाठ्यक्रम

## प्रश्न पत्र, अंक तथा परीक्षा समय

भाग-1 (वस्तुपरक प्रश्न पत्र)	अंक	समय
(अ) सामान्य योग्यता परीक्षण		
(1) सामान्य हिन्दी	50 अंक	2 घण्टे
(2) सामान्य अध्ययन	100 अंक	2 घण्टे
(ब) अभियन्त्रण विषय		
(1) प्रश्नपत्र प्रथम	100 अंक	2 घण्टे
(2) प्रश्नपत्र द्वितीय	100 अंक	2 घण्टे
भाग-2 (परम्परागत प्रश्न पत्र)		
(1) अभियन्त्रण प्रश्न-पत्र प्रथम	200 अंक	3 घण्टे
(2) अभियन्त्रण प्रश्न-पत्र द्वितीय	200 अंक	3 घण्टे
(स) व्यक्तित्व परीक्षा (मौखिक परीक्षा)	100 अंक	
कुल योग	850 अंक	

नोट :- अनिवार्य विषयों के अतिरिक्त अभ्यर्थी अपनी स्नातक शाखा के प्रश्न पत्र में सम्मिलित होंगे तथा पदों के अनिवार्य अर्हता के अनुरूप अर्हता होने पर ही तत्सम्बन्धी पद के लिए मान्य होंगे। सामान्य हिन्दी तथा सामान्य अध्ययन के लिए निम्नलिखित पाठ्यक्रम निर्धारित किया गया है।

पाठ्यक्रम: (अ) सामान्य हिन्दी- हिन्दी का पाठ्यक्रम इस प्रकार बनाया जायेगा ताकि उम्मीदवार की हिन्दी भाषा की समझ और शब्दों के कुशल प्रयोग की जाँच हो सके। इसका स्तर हाई स्कूल का होगा। (ब) सामान्य अध्ययन: सामान्य अध्ययन के प्रश्न-पत्र समसामयिक घटनाओं और ऐसी बातों की उनके वैज्ञानिक पहलुओं पर ध्यान देते हुए जानकारी सम्मिलित होगी जो प्रतिदिन के अनुभव में आती है तथा जिनकी किसी शिक्षित व्यक्ति से अपेक्षा की जा सकती है। प्रश्न-पत्र में भारत का इतिहास, राजनीति और भूगोल के ऐसे प्रश्न भी सम्मिलित होंगे जिनका उत्तर उम्मीदवार विशेष अध्ययन किये बिना ही दे सकेंगे।

व्यक्तित्व परीक्षा (मौखिक परीक्षा)  
यह परीक्षा अभ्यर्थियों की सामान्य जागरूकता, बुद्धि, चरित्र, सम्बोधन एवं सेवा के लिए, सामान्य उपयुक्तता को दृष्टि में रखते हुए सामान्य अभिरुचि के विषयों से सम्बन्धित होंगे।

नोट:- अभियन्त्रण विषयों के वस्तुपरक प्रश्न-पत्रों के लिए भी वही पाठ्यक्रम है, जो परम्परागत प्रश्न-पत्रों के लिए है।

## CONVENTIONAL

## Civil Engineering

## Paper-I

Note : Answer any five questions, atleast two from each part.

continued..

**PART-A**

**(a) Theory of structures :** Principles of superposition; reciprocal theorem, unsymmetrical bending. Determinate and indeterminate structures, simple and space frames; degrees of freedom; virtual work; energy theorem; deflection trusses; redundant frames, three-moment equation; slope deflection and moment distribution methods; column analogy; energy methods; approximate and numerical methods. Moving loads-shearing force and bending moment diagrams; influence lines for simple and continuous beams. Analysis of determinate and indeterminate arches. Matrix methods of analysis, stiffness and flexibility matrices.

**(b) Steel Design:** Factors of safety and load factor, design of tension; compression and flexural members: built up beams and plate girders, semi-rigid and rigid connections, design of stanchions, slab and gusseted bases; cranes and gantry girders; roof trusses; industrial and multistoreyed buildings, plastic design of frames and portals.

**(c) R.C. Design:** Design of slabs, simple and continuous beams, columns, footing-single and combined, raft foundations; elevated water tanks, encased beams and column, ultimate load design. Methods and systems of prestressing; anchorages, losses in prestress.

**PART-B**

**(a) Fluid Mechanics:** Dynamics of fluid flow-equations of continuity; energy and momentum. Bernoulli's theorem; circulation velocity potential and stream function; rotational and irrotational flow, free and forced vortices; flow net- dimensional analysis and its application to practical problems. Viscous flow-Flow between static and moving parallel plates, flow through circular tubes; film lubrication. Velocity distribution in laminar and turbulent flow boundary layer, incompressible flow through pipes lamina and turbulent flow critical velocity; losses stamption and Moody's diagram. Hydraulic and energy grade lines; siphons; pipe network. Forces on pipe bends. Compressible flow-adiabatic and isentropic flow, subsonic and supersonic velocity; Mach number, shockwave, water Hammer, Surge Tanks.

**(b) Hydraulic engineering:** Open channel flow-uniform and non-uniform flow, best hydraulic cross-section. Specific energy and critical depth, gradually varied flow; classification of surface profiles, control sections; standing wave flume; surges and waves. Hydraulic jump. Design of canals-unlined channels in alluvium the critical tractive stress, principles of sediment transport regime theories, lined channel hydraulic design and cost analysis; drainage behind lining.

**Canal Structures:** Designs of regulation work; cross drainage and communication works-cross regulators, head regulator, canal falls, aqueduct metering flumes, etc. canal outlets.

**Diversion Headworks:** Principles of design of different parts of impermeable and permeable foundations; Khosla's theory; energy dissipation sediment exclusion. Dams-Design of rigid dams, earth dams; forces acting on dams; stability analysis. Design of spill ways. Wells and Tube-wells.

**(c) Soil Mechanics and foundation Engineering:** Social Mechanic Origin and Classification of soils; atterburg limits void ratio, moisture contents permeability laboratory and field tests, seepage and flow nets, flow under hydraulic structures uplic and quick sand condition. Unconfined and direct shear tests; triaxial tests; heat pressure theories, stability of slopes; theories of soil consolidation; rate of settlement. Total and effective stress analysis pressure distribution in soil; boussinesque and westerguard theories. Soil exploration. Foundation Engineering; bearing capacity of footings; piles and wells; design of retaining walls; sheets piles and caissons. Principles of design of block foundation for machines.

**PAPER-II**

**Note:** Answer any five questions, atleast two from each part.

**PART-A**

**Building construction:** Building materials and constructions-timber, stone, brick, sand, surkhi, mortar, concrete, paints and varnishes, plastics, etc. Detailing of walls, floors roofs, ceilings, stairs cases, doors and windows.

**Finishing of building:** Plastering, pointing, painting, etc. Use of building codes. Ventilation, air conditioning, lighting and acoustics.

Building estimates and specifications, construction scheduling PERT and CPM methods.

**Railways and Highways Engineer:** Railways-permanentway ballast sleeper; chairs and fastenings; point and crossings different types of turn outs cross over setting out of points. Maintenance of track super elevation creep of rail ruling gradients; track resistance, tractive effect curve resistance station yards station building platform sidings; turn tables. Signals and interlocking level crossings.

**Road and Runways:** Classification of roads, planning geomatric design. Design of flaxible and rigid parements; sub-bases and wearing surfaces. Traffic engineering and traffic surveys; inter sections road signs; signal and markings.

**Surveying:** Plans table surveying equipment & methods; solutions of 2 & 3 point probes. Errors and precautions. triangulation; crades, baselines and its measurement, satellite station; intervisibility of stations; errors and least squares; general methods of least squares estimation with inter disciplinary approach, adjustment of level nets and tranguationntes. Matrix notation solutions. Layout of curves; simple, compound, reverse, transition and vertical curves. Project surveys and layout of civil engineering works such as building tunnels, and hydroelectric projects.

**PART 'B'**

**Water Resources Engineering:** Hydrology Hydrologic cycle; precipitation; evaporation-transpiration and infiltration hydrographs, units hydrograph; flood estimation and frequency, planning for water resources-ground and surface water resource; surface flows. Single and multi purpose projects storage capacity, reservoir losses reservoir slitting flood routing. Benefit cost ratio; General principles of optimisations water requirement for crops-quality of irrigation water consumptive use of water, water depth and frequency of irrigation; duty of water; irrigation methods and efficiencies.

**Distribution system for canal irrigation:** Determination of required channel capacity; channel losses, alignment of main and distributory channels water logging its causes to control design of drainage system: soil sainity. River training principles and methods. Store work types of dams (including earth dams) and the characteristics principles of design, criteria for stability. Foundation treatment; jounts and galleries control of seepages. Spill ways-Different types and their suitability; energy dissipation. Spillway create gates. Sanition and water supply; sanitation-site and orientation. of buildings; ventilation and damp proof course; house drainage; conservancy and waterborne system of waste disposal sanitary appliances; latrine and urinals. **Environment Engineering:** Elementary principles of ecology and eco-systems and their interaction with environment. Engineering activity and environmental pollution, environment and its effects on human head and activity. Air environment; major pollutants and their adverse effects and disposal methods, their selection and operation. Typical features of water distribution systems; demand, available need, network analysis, storage, corrosion.

**Typical feature of sewerage systems:** Permissible velocities, paratial flow in circular sewers, non-circular sections, corrosion, in sewers, construction and maintenance, sewer systems. Environment

**MECHANICAL ENGINEERING****PAPER - I**

**Note:** Answer any five question, at least two from each part.

**PART 'A'**

**(a) Statics Equilibrium.** Suspension cables, Friction, Trusses. Principle of Virtual work.

**(b) Dynamic:** Kinematics of rigid bodies place motion, absolute motion, relative motion. kinetics rigid bodies- plane motion, force, mass and acceleration, work and energy, impulse and momentum.

**(c) Theory of Machines:** Velocity and acceleration of links, Cams Gears and gear trains, clutches. Belt drives brakes and dynamo motors. Flywheel and governors. Balancing rotating and

recipating masses and multi cylinder engines. Free, forced and ped vibration Critical speed whirling of shafts.

**(d) Mechanics of Solids:** Stress and trains in two dimensions. Mohr's circle. Strain rosettes Torsion of circular Shafts. stresses and deflections due to bending of beams. Unsymmetrical bending. Curved beams. Castigliano's theorem. Thick cylinders. shirk fit. Stability of columns. Theories of failures.

**PART - B**

**(a) Material Science:** Atomic structure, Crystal systems, Imperfections, polymers, elastomers, and ceramics. Mechanical behaviour of Materials, Elastics and inelastic action, linear and non-linear elastic properties. True and conventional stress strain curves for common engineering materials, Strain hardening, Ductile and brittle transition, Fractue. Greep and Fatigue, Semi-conductors super-conductors and ferrites. Magnetic and dielectric properties, **(b) Manufacturing Science:** Merchant's theory, Taylor equation. Machinability, Unconventional machining methods including EDM, ECM and ultrasonic machining. Analysis of forming processes. High velocity forming Explosive forming. Surface roughness, gauging comparators. Jigs and fixtures. **(c) production Management:** Work simplification, work sampling, value engineering Line balancing, work station design, storage space requirement. ABC analysis, Economic order, quantity including finite production rate, Graphical and simplex methods for linear programming, transportation model, elementary queucing theory/ Quality Control and its uses in product design. Use of X, R, F, (sigma) and G Charts. Single sampling plans, operating characteristic curves Average size.

**PAPER-II**

**Note:** Answer any five questions atleast two from each part.

**PART 'A'**

**(a) Thermodynamics:** Applications of the first and second laws of thermodynamics Detailed analysis of thermodynamic cycles.

**(b) Fluid Mechanics:** Reynolds transport theorem and its applications. Ideal fluid flow. Velocity distribution and resistance laws for laminar and turbulent flow in pipes. Dimensional analysis and similitude. Forces on immersed bodies and boundary, layer over a flat plate. Isentropic flow and adiabatic flow normal and oblique shock waves.

**(c) Heat Transfer:** Critical thickness of Isolation- Conduction in the presence of Heat sources and sinks, Heat transfer from fins One dimensional unsteady conduction. Time constant for thermocouples. Momentum and energy equations for boundary layers on a flat plate. Dimensionless numbers, Free and forced convection. Nature of radient heat. Stefan- Boltzmann law, Cofiguration factor. Natural and forced convection. IMTD heat exchanger effectiveness and number of transfer units.

**PART 'B'**

**(a) Energy Conversion:** Combustion phenomenon in S.I. and C.I. engines. Carburetion and fuel injection. Classification of hydraulic furbines, specific speed, Selection of trubines, Microhydropower station and equipment, Centrifugal pump, Performance for compressor. Analysis of steam and gas turbines, High Pressure ballers Unconventional poser systems including Nuclear power and MHD systems utilisation of solar energy.

**(b) Environments: Control:** Vapour compression absorption, steam jet and air refrigeration systems, Properties of important refregerants. Psychometric properties, psychometric relations. Use of psychrometric chart. Estimation of cooling load supply air conditions, sensible heat factor, system layout.

**ELECTRICAL ENGINEERING****PAPER - I**

This paper will contain two section (A & B).

**Section A** will Contain Networks and systems, E.M. Theory Systems, and Elements of Electronics, **Section B** will deal with Power System Analysis and Design, Elements of Electrical Machines, Utilization and drives, and measurements.

**SECTION-A**

**Networks and Systems:** Transient and steady state Analysis of systems, state space analysis of networks, operational methods in networks and systems, Laplace Fourier and Z transforms for continuous and discrete systems, response characteristics and stability. R-L & R.C. network synthesis. E.M. Theory: Analysis of electrostatic magnetostatic fields Laplace, Position and Maxwell equations, solution of boundary value problems, electromagnetic wave propagation ground and space waves Propagation between Earth Station and Satellites, Fields Concepts of Circuits. Control systems: Mathematical modelling of dynamic liner continuous and digital control systems, Block diagrams and signal flow graphs, state space modelling and stability (Error evaluation, Error series compensation Liapunov methods for stability.

**Elements of Electronics:** P-N Junction diode, Zener Diode, junction triode transistors and their parameters, current, voltage gain and input-output impedance, biasing techniques common base, emitter amplifier, feed back oscillator coalpit oscillator and Hartley Oscillator, Wave shaping circuits ans timebase generators, analysis of multivibration, digital circuits.

**SECTION - B**

**Power System Analysis and Design:** Line parameters and calculations, Performance of Transmission lines, voltage distribution over and Insulator string, string efficiency improvement, sag and tension calculations, conductor vibrations, Disruptive and visual Critical Voltage Corona loss, interference between Power and Communication Line, Parameters, of single and three core belted cables Bus admittance matrix, Load flow equations and methods of solutions, fast decoupled load flow, Balance and Unbalanced Faults ans analysis, Digital techniques in Fault Calculations, Power system transients and travelling Waves, Power system, stability EHV Transmission, HVDC transmission general design considerations for distribution systems, Design of transmission lines. Elements of Electrial Machines:- General of E.m.f. m.m.f. and torque in ratating machines, motor and generator characteristics of d-c, synchronous and Induction Machine, equivalent circuits, commutationand amature reaction considerations, Parallel operation, phas or and equivalent circuit of power transformer, determination of performance and efficiency, auto-transformers, 3-phase transformers. Utilizations and Drive: Electrical motors for various drives and estimates and Drives: Electrical motors for various drives and estimate of their rating, starting, Braking and reversing operations of motors, speed control of d-c and induction motors, static power controllers and Electronic circuits for speed control, Inverters and coverers, Characteristics of traction motors, Dielectric and induction heating. **Measurement:** Basic methods of measurement standards, error analysis, indicating and recording instrument of voltage, current power, resistance, inductance, capacitance power factor, frequency and flux, Instrumentation systems for pressure and temperature measurements.

**PAPER - II**

This paper will contain Industrial Electronics, digital electronics, microwaves and communication system. **Section B** will deal with Electrical and special machines, Power system protection, Analog and Digital Computation and Elements of Microprocessors.

**SECTION - A**

**Industrial Electronics:** principle and design of single phase and polyphase rectifiers. smoothing and filters regulated power supplies, speed control circuits for drives, inventors, d-c to d-c conversion choppers times and welding circuits. Digital Electronics: small Signal Transistor Analysis. Steady State and Transient swiching characteristics of semiconductor devices. clipping, clamping and switching circuits, Multi vibrators Boolean Algebra, logic gates, I.C. building blocks and modules. combinational and sequential digital circuits, semiconductor memories. Microwaves and Communication systems: Electromagnetic wave in guided media, wave guide components resonators microwave tubes, microwave generators and amplifiers. Generation and detection of amplitude- frequency-phase and pulse medullated. signals using oscillators, modulators and demodulators comparison of modulated systems, noise problems, channel efficiency, sampling

continued..

Theorem, sound and Vision Broadcast transmitting and receiving systems, antennas, transmission line at audio and ultrahigh frequencies.

#### SECTION - B

Electrical and special Machines: Rotating magnetic field, Polyphase motor, Torque slip characteristics, Equivalent Circuit and determination of its parameters, starters, speed control, Induction generator. Theory and phaser diagrams, characteristics, and application of single phase motors, repulsion motor, series motor E.m.f. equation and phaser diagram for synchronising power sudden short circuit and analysis of oscillogram to determine machine reactance and time constants, synchronous machine motor, Amplidyne and metedyne operating characteristics, and their applications. principles and operation of servo motors. Power system protection: Switch gear methods of Arc Extinction, Restrilling and recovery voltage, testing of circuit breakers, Protective relays, protective schemes for power system equipment C.T. and P.T. surges in transmission lines and protection. Analog and Digital Computation: Analysis of op-amplifier R.C. Circuits, use differentiator and integrator, simulation of circuits, use as differentiator and integrator simulation of dynamic and algebraic equations, simulation of control systems, basis of digital computation, flow charting, numerical analysis for interpolation curve fitting, area, algebraic linear and nonlinear equations, solution of differential equations through Euler and Rung Kutta Methods, Writing simple programs for series in AT. CV. HE and combination quadratic equation roots programs for matrix addition, multiplication and determinants, curve fitting interpolation, area linear and non-linear equation. differential equations of first and second order. Elements of Microprocessors: Data representation and representation of integer and floating point numbers. organisation and programming of a microprocessor, ROM and RAM memories CPU of a microcomputer, interfacing memory and I/O devices, Programmable peripheral and communication interface. Application of microprocessors for a temperature closed loop process control and data acquisition monitoring system.

#### AGRICULTURAL ENGINEERING

##### PAPER-I

(a) Fluid Mechanics: Fluid properties units and dimensions fluid statics, Kinematics of fluid continuity, Eulers and energy equation, Bernoulli's equation, impulse momentum principles dimensional analysis and hydraulic similitude, flow in pipes and open channels and measurement of flow. (b) Rural Engineering: Kinds of building materials-their properties timber, brick work and RCC construction, design of slabs, simple and continuous beams, columns, footings shaping design of foundation planning and design of rural houses, cost estimation, farm roads, drainage system of villages, waste disposal and sanitary structures. (c) Surveying leveling and Land Development: Linear measurements, chain surveying, compass surveying, plane table survey, theodolite surveying contouring, land grading survey and design, construction, proceeder, contour bench leveling: land grading design and earth work commutation. land leveling equipments. (d) Process and food Engineering: Unit operation in post-harvest processing. (cleaning and grading. drying pasteurization. contrition of milk, shalling/ hulling. polishing, crushing/ grinding of grains etc.) processing cereals, pulses, oilseeds cattle food fruits and vegetables, design of grain drying systems, milling operations. equipment and system. (e) Pumps: Design construction performance selection servicing and maintenance of reciprocating pumps, volute and diffuser type irrigations centrifugal pump, gear pumps turbine pump, submersible pumps and propeller pumps. hydraulic ram jet pumps and air lift pump. (f) Storage Engineering; Storage system and their mangement changes in stored produce during shortage of seeds grains and their products, air light, non-air light and other conventional storagess, storage of fruit and vegetable seared, refrigerates and controlled. atmosphere, design of storage structures including aeration systems sand selection storage location and related equipments.

##### PAPER-II

(a) Thermodynamics and Heat Engine: Concept of energy, temperature and heat, equation of state, first law of thermodynamic for closed and open system, pure substance and properties, second law of thermodynamic and entropy, bollers, mountings and accessories, boiler efficient, system engine, ranking cycle, indicator diagrams, steam turbine, I.C. engine, air standard, otto, diesel and Joule cycles.

(b) Tractor Power: sources of power on the farms, classification of tractors and I.C. engines, engine components their construction, operating principles and functions, and engine systems valves and valve mechanism, fuel and air supply, coolings, lubrication, ignition, starting and electrical system, engine governing, engine testing and performance, transmission systems of wheel and track type tractors clutch, gear box, differential and final drive mechanism and tractor turning tractor controls, tractor, theory, steering and suspension, brakes, tractor power outlets, PTO. belt pulley etc. hydraulic circuits and controls tractor hitching, category of hitches, mechanics of tractor chasis, tractor stability, trouble shooting, tractor repair and maintenance, tractor testing and economics of tractor utilization.

(c) Farm Machinery: Importance and role of farm machines in the Indian Agriculture, farm machinery systems in use in India, functional requirements, principles of working, construction, operations, adjustments, repair and maintenance of tod, implements, and machinery operated by different sources of power available on Indian farm for tillage, seed bed proportion, sewing and fertilizer application planting and transplanting weeding and inter cultivation, spraying and dusting, harvesting, threshing and combining and transport. Analysis of forces and design of components of farm machinery. Crop and soil factors effecting machine performance and energy requirements. Selection of farm machinery and equipment for various farming systems and agro-ecological regins. Cost analysis and farm machinery management. Energy requirement for various filed operations.

(d) Irrigation and Drainage resource of India-surface and good water sources, utilization and economics, soil water plant relationship-water to soil, infiltration, moisture, evapotrans-piration, water requirement and irrigation efficiencies measurement of irrigation water weirs, Parshall flumes and orifices water conveyance and control-design of irrigation field channels and canals canal lining, design of irrigation channels-Lacey and Kennedy theory, most economical channel cross-section, design of under ground pipe line water distribution system, structures of under ground pipe line, water control and diversion structures, irrigation methods-theory and design of surface irrigation methods, drip irrigation, sprinklers and irrigation in salt affected soil, Drainage investigations, hydraulic conductivity, drainable porosity, surface drainage, drainage of flat and shopping lands, open ditches design, alignment and construction, nature and extent of sub-surface drainage benefits of sub-surface drainage methods of layout of sub-surface drainage, design of sub-surface drains depth and spacing of sub-surface, drains, installation of the drains and drainage walls.

(e) Ground water Hydrology and Tubwell Engineering: Occurance and movement of ground water, steady transient flow into wells, well interference well drilling design of well assembly and gravel pack, installation of well screens, completion and development of wells surface and sub-surface exposition of ground water, quality of modeling and project formulation.

(f) Soil and water Conservation Engineering: Precipitation, geomorphology of watershed, hydrological analysis mass curves, and hydrograph, flood routing grasses waterways and their design, introduction to watershed management and planning, head water and flood control, soil erosion-water and wind, estimation of soil loss, design of erosion control practice, contour and strip cropping and bunding, terra ching wind breaks shelter belts, Gullies and revinge reclamation, energy, momentum principle of surface flow, functional requirement of erosion control structures, classification of structure-temporary and permanent structures, design features drop structures chute spillways and pipe spillways, design of diversion structures, small earthen embankment reservoirs and energy dissipators, cost estimation seepage and theory consolidation ans strength and stability of slopes.

Secretary