



# PUBLIC SERVICE COMMISSION, UTTAR PRADESH

Advertisement No.  
A-9/E-1/2013  
Date 24-12-2013

## Combined Junior Engineer (General Recruitment) Examination-2013 And Combined Junior Engineer 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 Applications : 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 candidates 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 APPLICATION 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 Rect.) 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 Candidates 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 candidates 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 discrepancies, 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. Dependents 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 Examination at various Centres of the

Districts mentioned in Appendix-8 of this advertisement. The selection will be made on the basis of written examination and interview. The marks of interview will be added to the marks obtained in the written examination of the candidates and their place will depend on the aggregate of both. So the candidates who qualify in the written exam. shall have to appear compulsorily in interview. Only such candidates will be called for interview who are declared successful on the basis of above written Examination. 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:-

#### A. General Recruitment

Sl. No.	Name of Deptt.	Name of Post	No. of Vacancies	Branch
1.	Irrigation Deptt. U.P.	J.E. (Civil)	2100	Civil
2.	Irrigation Deptt. U.P.	J.E. (Mechanical)	449	Mechanical
3.	Minor Irrigation Deptt. U.P.	J.E. (Civil)	52	Civil
4.	Minor Irrigation Deptt. U.P.	J.E. (Mechanical)	35	Mechanical
5.	Minor Irrigation Deptt. U.P.	J.E. (Agriculture)	88	Agriculture
6.	Ground Water Deptt. U.P.	T.A. (Civil)	03	Civil
7.	Ground Water Deptt. U.P.	Surveyor (Civil)	03	Civil
8.	Ground Water Deptt. U.P.	J.E. (Civil)	11	Civil
9.	Ground Water Deptt. U.P.	J.E. (Mechanical)	06	Mechanical
Total=			2747	

#### (B) Backlog/Special Recruitment- For Physically Handicapped candidates (For O.A., O.L., P.B., P.D. only)

Sl. No.	Name of Deptt.	Name of Post	No. of Vacancies	Branch
1.	Minor Irrigation Deptt. U.P.	J.E. (Civil)	06	Civil
2.	Minor Irrigation Deptt. U.P.	J.E. (Mechanical)	05	Mechanical
3.	Minor Irrigation Deptt. U.P.	J.E. (Agriculture)	35	Agriculture
4.	Housing and Town Planning Deptt. U.P.	J.E. (Civil)	11	Civil
Total=			32	

Note : No. of vacancies may increase or decrease in the special circumstances on the request of the Govt.

Pay Scale : Rs. 9300/- - Rs. 34,800/- (Grade Pay Rs. 4200/-) (Post- Group 'C' Non-Gazetted)

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./Ex-Servicemen 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/Ex-Serviceman, 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 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 the 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 :** Till last date for submitting the applications, the candidates must possess following qualifications:-

#### 1. Irrigation Department : Essential:

**Junior Engineer (Civil) :-** (a) Diploma in Civil Engineering awarded by an Institution or University established by law in India. Or (b) Diploma in Civil Engineering awarded by the Board of Technical Education Uttar Pradesh. Or (c) National Certificate in Civil Engineering awarded by All India Council of Technical Education. Or (d) Three years diploma in Civil and Rural Engineering by the Board of Technical Education Uttar Pradesh.

**Preferential Qualification:** A candidate who has;

(1) Served in the Territorial Army for a minimum period of two years, or (2) Obtained a "B" certificate of National Cadet Corps, shall other things being equal, be given preference in the matter of direct recruitment.

#### 2. Irrigation Department : Essential:

**Junior Engineer (Mechanical) :-** (a) Diploma in Mechanical Engineering awarded by an Institution or University established by law in India. Or (b) Diploma in Mechanical Engineering awarded by Board of Technical Education, Uttar Pradesh. Or (c) National Certificate in Mechanical Engineering awarded by All India Council of Technical Education.

**Preferential Qualification:** A candidate who has; (1) Served in the Territorial Army for a minimum period of two years, or (2) Obtained a "B" certificate of National Cadet Corps, shall other things being equal, be given preference in the matter of direct recruitment.

#### 3. Minor Irrigation Department : Essential:

**Junior Engineer Agriculture/Civil/Mechanical :-** Three years Diploma in Agriculture Engineering/Civil Engineering/Mechanical Engineering recognised by Technical Education Board Government of U.P. or any equivalent qualification recognised by Govt. which is approved by A.I.C.T.E. which is must. **Preferential Qualification:** A candidate who has; (1) Two years service in Territorial Army.

(2) Obtained a "B" certificate of the National Cadet Corps, shall other things being equal, be given preference in the matter of direct recruitment.

#### 4. Awam Evam Shahari Niyojan Vibhag, U.P.: Educational Qualification : Essential -

**Junior Engineer (Civil) :** Diploma in Civil Engineering from any recognised Institute established by the State Govt. or Technical Education Board, U.P..

#### 5. Ground Water Department : Essential-

(i) **Technical Assistant (Civil), Junior Engineer (Civil) :** Three years diploma in Civil Engineering from the Board of Technical Education, Uttar Pradesh or a diploma in Civil Engineering declared by the Government as equivalent thereto from an Institution.

(ii) **Surveyor (Civil) :** Diploma in Civil Survey Engineering from the Board of Technical Education, Uttar Pradesh or a diploma in Civil Survey Engineering declared by the Government as equivalent thereto from an Institution.

(iii) **Junior Engineer (Mechanical) :** Three years diploma in Mechanical Engineering from the

Board of Technical Education, Uttar Pradesh, or a Diploma in Mechanical Engineering declared by the Government as equivalent thereto from an Institution.

**Preferential Qualification :** A candidate who has: (1) Served in Territorial Army for a minimum period of two years, or (2) 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. **Note:** For the posts of Junior Engineer (Civil and Mechanical) in Irrigation Deptt., the lower age-limit is prescribed 18 years. Such candidates must not have been born earlier than 2nd July, 1973 and not later than 1st July, 1995. (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 Back Ward 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 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 3 years more in addition to their completed service period. Upper age limit for physically handicapped persons of Society of U.P. will be greater by fifteen years i.e. they must have not born before 2nd July 1958. For the posts of Junior Engineer (Civil/Mech.) Irrigation Deptt., the upper age limit will be relaxed upto one year for trainees.

**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. (iv) The candidates will have to fill-up prescribed Application Form before the interview. (v) 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. The marks of interview will be added to the marks obtained in the written examination of the candidates and their place will depend on the aggregate of both. So the candidates' who qualify in the written exam. shall have to appear compulsorily in interview.

**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.

**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 Marksheets, 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 ex-army 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. (14) The candidates who are appearing in the Diploma examination need not to apply, because they are not eligible. (15) The timing for examination will be 9.00 to 12.00 Noon (1st session) and 2.00 to 5.00 P.M. (IInd session) for all the question papers.

**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, Ex-Servicemen, 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 the candidates about their eligibility. Therefore, they should carefully read the advertisement and when satisfied about their eligibility conditions in terms 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.

**6.** 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.**

**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 Stage)
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		
सहायक वन संरक्षक परीक्षा-2013	उत्तम	A-9/E-1/2013	01/01/2013	01/01/2013	01/03/2013	User Instructions	View Advertisement Apply

परीक्षा का नाम : \* Combined Junior Engineer (General Recruitment) Examination-2013 And Combined \*  
 Junior Engineer Physically Handicapped (Backlog/Special Recruitment) Examination-2013 \*    विज्ञापन संख्या : A-9/E-1/2013 \*  
 विज्ञापन प्रारंभ तिथि : \*    , चयन : [ सामान्य ]

आयु गणना की निश्चयक 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 Exam - 2013	PCS Exam - 2013			21	40	163	View	Candidate Registration

continued..

**Appendix-2**  
Candidate Home Page-Notifications/Advertisements-Candidate Basic Registration

Combined Junior Engineer (General Recruitment) Examination-2013 And Combined Junior Engineer Physically Handicapped (Backlog/Special Recruitment) Examination-2013

Advertisement No : A-9/E-1/2013  
Directorate/Department : PCS Exam - 2013  
Post Name : PCS Exam - 2013  
Date for Calculating Age : 01/07/2013

Select Type of Recruitment : सामान्य / सामान्य

**Personnel Information**

1. Candidate Name :  
2. Father/Husband Name :  
3. Are you Domicile of UP? :  
4. Category :  
5. Date Of Birth (DD/MM/YYYY) :  
6. Gender :  
7. Are You Married? :  
8. Contact Number :  
9. Email ID :

**Essential Qualification Details**

Sr. No.	Name	Acquired(Y/N)	Is Grade System	Marks Obtained	Total Mark	Percentage
1.	भारत में विधि द्वारा स्थापित किसी विधायिकात्मक संसदात्मक की उपाधि या श्रेणीक द्वारा इनके समकक्ष मान्यता प्राप्त कोई उपाधि	No	No			

Enter Verification Code :

Submit Cancel Close

**Appendix-3**  
Candidate Registration Acknowledgement

Candidate Home Page-Notifications/Advertisements-Registration Successfully

Print Registration Slip

Uttar Pradesh Public Service Commission  
Registration Slip Applied for

Combined Junior Engineer (General Recruitment) Examination-2013 And Combined Junior Engineer Physically Handicapped (Backlog/Special Recruitment) Examination-2013 : A-9/E-1/2013

You have been registered successfully.  
Please note down your Registration Number for future Reference.

Candidate Registration No. : 10120000084

Advertisement / Notification No. : A-9/E-1/2013  
Candidate Name : SANDEEP KUMAR  
Father's / Husband's Name : P. JAISWAL  
Date Of Birth : 01/01/1980  
Are you Domicile of UP? : Yes  
Category : सामान्य  
Gender : पुरुष  
Fee (in INR) : NIL

**Note :-**

- Please Note Down Candidate Registration No. 10120000084 for Future communication with UPPSC.
- Your Application will be treated as incomplete unless accomplished by application form fee and uploading of photograph with signature & the detailed application form submission.
- 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.
- 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.
- Detailed application form submission will be stopped after 23:59 hrs of the last date of form submission given in the advertisement.
- 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]

Print

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**  
Examination Fee's Payment Details

Candidate Home Page-Fee Payment

Candidate Registration No. : 10120000109  
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 : Pgk5h

Click here to Generate E-Challan Close

\*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**  
Bank E-Challan

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

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

Cash can be deposited AT PAR in any branch of State Bank Of India

Combined Junior Engineer (General Recruitment) Examination-2013 And Combined Junior Engineer Physically Handicapped (Backlog/Special Recruitment) Examination-2013 A-9/E-1/2013 / PCS 2013

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

Candidate Registration/Challan No. : 10120000199  
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 :

Print Challan

**Appendix-6**  
Bank E-Challan

E-challan (ई-चालान)  
पंजाब नेशनल बैंक  
Punjab National Bank  
संकेत संख्या अयोध्या, 3090  
Public Service Commission, Uttar Pradesh  
Fee Details

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

Cash can be deposited AT PAR in any branch of Punjab National Bank

Combined Junior Engineer (General Recruitment) Examination-2013 And Combined Junior Engineer Physically Handicapped (Backlog/Special Recruitment) Examination-2013 A-9/E-1/2013 / PCS 2013

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

Candidate Registration/Challan No. : 10120000199  
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 :

Print Challan

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

Candidate Home Page-Submit Application Form

All pink fields are compulsory

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. : 10120000084  
Fee Deposition through E-Challan / Fee amount is NIL

Bank Transaction Details  
Bank Name : Please Select.. Contact us for problem related to Trans ID/Journal No. Date  
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..

\*\* Click here for guidelines for uploading photo with signature \*\*

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', '1' 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 :-

width= 3.5 cm  
Height= 4.5 cm

Photo  
Signature

Appendix-7B

Submit Application Form for Combined Junior Engineer (General Recruitment) Examination-2013 And Combined Junior Engineer Physically Handicapped (Backlog/Special Recruitment) Examination-2013 Preliminary Examination

Candidate Home Page-Submit Application Form-Application Full details

All part fields are compulsory

I declare that I have read the user instructions & detailed advertisement

Notification Details	
Notification No	A-9/E-1/2013
Selection Type	सामान्य
Directorate/Department	PCS Exam 2013
Post Name	PCS Exam 2013
Candidate Personnel Details	
1. Applicant Registration No.	10120000084
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. Category	General
8. Are you Married?	No
9. Contact No.	
10. Email ID	
Transaction Details	
11. Bank Name	0
12. Transaction ID	0
13. Transaction Date	//0

Other Details of Candidate	
13. Are you Dependent of UP Freedom Fighter?	No
14. Are you UP Ex. Army?	No
14.1 Service Duration (Day-Month-Year)	0 - 0 - 0
14.2 Retirement Date(Month/Year)	//
15. Are You Handicap of UP?	Yes
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
Sr. No. PH Category [ LOCOMOTOR or CEREBRAL PLASY ] Selected PH Category	
15.3.1 Both Legs affected but not arms [ BL ]	<input type="checkbox"/> BL
15.3.2 Both Arms affected [ BA ]	<input type="checkbox"/> BA
15.3.3 Both Legs and Both Arms affected [ BLA ]	<input type="checkbox"/> BLA
15.3.4 One Leg affected ( right or left ) [ OL ]	<input type="checkbox"/> OL
15.3.5 One Arm affected ( right or left ) [ OA ]	<input checked="" type="checkbox"/> OA
	<input type="checkbox"/> Impaired Reach <input type="checkbox"/> Weakness of grip <input type="checkbox"/> Ataxic
15.3.6 Stiff Back and Hips ( Cannot sit or stoop ) [ BH ]	<input type="checkbox"/> BH
15.3.7 Muscular Weakness and limited physical endurance [ MW ]	<input type="checkbox"/> MW
16. Are You Skilled Player Of UP?	No

Essential Qualification Details						
17.1 Essential Qualifications & Marks According to Advertisement :-						
Sr No.	Qualification	Acquired	Is Grade System	Obtain Marks	Total Marks	Percentage
1	भारत में विधि द्वारा स्थापित किसी विधायिकात्मक संसद के अध्यक्ष या सरकार द्वारा इसके समकक्ष मान्यता प्राप्त कोई अधिकार	Yes	No	123.00	150.00	82.00

18. Are You Graduate ? \* Yes

If Yes, Please Select Subject Name -> You are Selected these Subjects :

Please Select the Subject Name

अर्थशास्त्र  
 समाज शास्त्र/समाज विज्ञान  
 कृषि

1. अर्थशास्त्र  
 2. समाजशास्त्र  
 3. कृषि

19. Are You Post Graduate ? \* Yes

If Yes, Please Select Subject Name -> You are Selected these Subjects :

Please Select the Subject Name

अर्थशास्त्र  
 समाज शास्त्र/समाज विज्ञान  
 कृषि

1. अर्थशास्त्र

20. Other Essential Qualification \* Yes

If Yes, Please Select Subject Name -> You are Selected these Subjects :

Please Select the Subject Name

ओएससी या बीएससी (Ag.) के उपरान्त राजकीय कलेज परीक्षाएं एवं डिग्री बन्ध संस्थान स्नातक या स्नातकोत्तर से 15 माह का स्नातकोत्तर डिप्लोमा पाठ्यक्रम अथवा किसी मान्यता प्राप्त संस्थान से होकर मिले प्रबन्ध और ओशन प्रबन्ध में तीन वर्षीय डिप्लोमा  
 औपचारिक/औपचारिक विज्ञान संस्था

1. समाज शास्त्र अथवा समाज विज्ञान में स्नातक तथा पोस्ट ग्रेजुएट डिप्लोमा इन इल्युष्ट्रेशन

21. Are You Know Hindi in Devnagari Lipi ? \* Yes

Candidate's Address, Photo Signature Details	
23. Address : lucknow	24. Photo & Signature ?
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 : लखनऊ	
23.6 PIN : 354365	

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 entires/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 detect before or after selection, the commission can take action against me as per rule incase 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 :- SC29T

Cancel Close Back Submit

Successful Confirmation of Application Form

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

Print Application ID Slip

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

A-9/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

उपरो 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..... नगर..... 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..... नगर..... 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..... नगर..... 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 आच्छादित 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..... नगर..... 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 Certificate No. .... Date .....

DISABILITY CERTIFICATE

This is to certified 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
  - (iii) BLA-Both legs and both arms affected
  - (iv) OL-One leg affected (right or left)
  - (v) OA-One arm affected
  - (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-Partially 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-assessn 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. ....) (Dr. ....) (Dr. ....)
- Member Member Chairperson  
 Medical Board Medical Board Medical Board
- Countersigned by the  
 Medical Superintendent/  
 CMO/HQ Hospital  
 (with seal)

Recent photograph of the candidate showing the disability duly attested by the Chairperson of the Medical Board

\*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..... नगर..... जिला..... उत्तर प्रदेश लोक सेवा (शासिक रूप 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 उपराकित अधिनियम 1993 के ही प्रावधानों के अनुसार उक्त श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी)..... के आश्रित हैं। हस्ताक्षर..... 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..... 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 इन्स्ट्रक्शन्स/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 इन्स्ट्रक्शन्स/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 इन्स्ट्रक्शन्स/शिक्षा ..... द्वारा व्यक्तिगत रूप से हस्ताक्षर होने पर मान्य होगा।

## परिशिष्ट-9

## PLAN OF EXAMINATION AND SYLLABUS

Question Paper	Marks	Time	Question Paper	Marks	Time
(I) General Hindi	50	3 hours			
(II) Civil Engineering Paper-I	150	3 hours	Civil Engineering Paper-II	150	3 hours
Or			Or		
(II) Mechanical Engg. Paper-I	150	3 hours	Mechanical Engg. Paper-II	150	3 hours
Or			Or		
(II) Electrical Engg. Paper-I	150	3 hours	Electrical Engg. Paper-II	150	3 hours
Or			Or		
(II) Agricultural Engg. Paper-I	150	3 hours	Agricultural Engg. Paper-II	150	3 hours
(III) Personality Test	50				

NOTE :- Syllabus of General Hindi is same for all the candidates. Candidates having the requisite qualification in Civil/Mechanical/Electrical/Agricultural Engineering should select any one of the Trade.

Syllabus in details of General Hindi, Civil/Mechanical/Electrical and Agricultural Engineering are as follows:-

## SYLLABUS

सामान्य हिन्दी (समय : 3 घण्टे, पूर्णांक 50)

क्र.	विषय	अंक	क्र.	विषय	अंक
1.	अपठित गद्यांश (क) गद्यांश का उपयुक्त शीर्षक (ग) गद्यांश का भावार्थ	01 03	(ख)	रेखांकित अंशों का आशय	04
2.	गद्यांश में विराम चिन्हों का प्रयोग	03	3.	पर्यायवाची	05
4.	विलोम	03	5.	अशुद्ध वाक्यों को शुद्ध करना	03
6.	मुहावरों और लोकोक्तियों का अर्थ तथा वाक्य प्रयोग	08	7.	पत्र लेखन (लगभग 200 शब्द)	08
8.	निबन्ध (लगभग 500 शब्द)	12			

## CIVIL ENGINEERING (DIPLOMA COURSE) Paper-I

## General Civil Engineering

Time - 3 Hrs.

## PART-A

Max. Marks : 150

(a) **Strength of materials and theory of structures** : 1. Effect of a force, tension and compression, free body diagram, virtual work, force distribution system. 2. Principle of energy, conservation of energy and momentum, rotation of rigid bodies about fixed axis, mass moment of inertia. 3. **Stresses and strains** : Types of stresses and strains, Definition of tension, compression, shear, bending, torsion, volumetric and lateral strain. Poisson's ration, Hooke's law. 4. Bending moment and shear force : Types of beam, simply supported, cantilever, fixed, overhanging and continuous beams. 5. Analysis of trusses, slope and deflection of beams. 6. **Columns and struts**: Long columns, short columns & struts, slenderness ratio. 7. **Torsion**: Circular shaft, combined bending, torsion and axial thrust, strength of hollow and solid shaft.

(b) **Design of reinforced concrete structures.**: 1. Design based on working stress method Flexural strength shear strength and bond strength of a singly reinforced RCC beam. 2. Design of lintels, Design of a Cantilever beam and slab, Design of doubly reinforced concrete beam. 3. Design of RCC slab, design of one way and two way slab. 4. Design of Reinforced brick beams, slab & lintels, design of T-beams. 5. Design of columns and column footings, cantilever retaining walls. 6. Components of (i) overhead water tank and (ii) Multistoreyed framed structures. 7. Introduction to design based on limit state method. 8. Prestressed concrete.

(c) **Steel & Machinery structures** : 1. Tension and Compression members in steel. 2. Design of

Steel of steel beams. 3. Design of simple column bases. 4. Design of simple trusses and purlins. 5. Design of masonry retaining walls. 6. Design of masonry wall foundation.

(d) Building estimates & coating, construction management, account & entrepreneurship development.

## PART - B

(a) **Soil mechanics and foundation engineering**: 1. Fundamental terms and their relationships. 2. Classification and identification of soil. 3. Phase relationship index property, laboratory determination. 4. Capillary phenomenon permeability, factors affecting permeability. 5. Compaction, methods of compaction. 6. Consolidation, difference compaction and consolidation. 7. Stresses in soil, shear strength, column's equation unconfirmed compression test. 8. Earth pressure retaining structures. 9. Shallow and deep foundations, classifications of piles. 10. Stabilisation of soils by lime and cement. 11. Sub-surface exploration.

(b) **Surveying**: 1. General principles. 2. Chain surveying. 3. Compass traversing, bearings, local attractions, types of traversing, traverse computations, corrections and missing readings. 4. Leveling - Theory, Temporary & permanent adjustment of levels types of leveling. Reciprocal leveling. L. section and cross section, Retraction and curvature corrections. 5. Contouring - characteristics, uses and plotting of contours. 6. Plane table surveying - orientation, plotting methods, two & three point problems, Lehmann's ruler errors and precautions. 7. Theodolite: Adjustment (Temporary & permanent) Measurement of angles, curves, horizontal and vertical curves, their design and layout transition curves. 8. Minor Instruments Abbeys Level, Tangent Clinometer, Ceylon Ghat tracer, pantograph and planimeter.

(c) **Building Materials and construction**: 1. Building Materials: Bricks, their classification and characteristics, building stones source, quarrying, classification and properties, lime, properties, Cement Types, properties and tests, timber and wood products, types, properties and uses, paints, varnishes and distempers, glass and plaster etc. Lime concrete, user in foundation and terracing, Cement Concretes, ingredients, grading of aggregates, workability water cement ration, mixing, laying compaction curing. 2. Building constructions- Detailing of walls, floors, roofs, stair cases doors and windows finishing of building, plastering pointing damp proofing etc. Ventilation and air conditioning fire fighting.

(d) **Water supply and sanitation for public building**: 1. Sources of Water, Quality of water supply, water treatment, water distribution, laying of pipes, building water supply & maintenance. 2. Quantity of sewage, sewerage systems sanitation and drainage, Disposal of Rainfall and domestic wastes, including night soil, waste water and garbage, plumbing for public and residential buildings, septic tanks and soak pit, sewage treatment.

CIVIL ENGINEERING (DIPLOMA COURSE) Paper - II  
WATER RESOURCES ENGINEERING

Time: 3 hrs.

Max: Marks- 150

1. Introduction Definition of Irrigation, Necessity of Irrigation History of development of Irrigation in India. Types of Irrigation in India. Sources of Irrigation Water. 2. Rain Fall & Run-off: Definition of rainfall & fun-off, catchment area, Dicken's & Ryve's formula, Types of rain gauges-Automatic & Non-automatic, Stream gauging. 3. Water Requirement of Crops: Definition of crop season, Duty Delta and base period, their relationship, Irrigation methods & efficiencies, Gross Command area, Culturable command area intensity of Irrigation, Irrigable area, Water requirement of crops-kharif and Rabi Preparation of water supply schedules for Kharif and Rabi. 4. Lift Irrigation: Types of wells, shallow & deep well, aquifer, types ground water flow. construction of open wells and tube wells Yield of an open/tube well and problems, methods of lifting water, manual and mechanical devices, use of wind mills lift canals-their design, construction and water scheduling. 5. Flow Irrigation: Irrigation canals, perriuil Irrigation, different parts of Irrigation canals and their functions, sketches of different canal cross sections classification of canals according to their alignment, Design of Irrigation canals Chezy's formula Mannings formula, Kennedy's and Lacey's silt theory and equations, comparison of above two sill theory, equations, critical velocity ratio, Use of Garrets and Lacey's charts, various types of canal lining, Advantages. 6. Canal Head Works: Definition, object, General layout functions of different part. Difference between weir and Barrage. 7. Regulatory Works: Functions and explanation of terms used cross head regulators, Falls Energy dissipates, Outlets-Different types, Escapes, 8. Cross Drainage Works: Functions and necessity of the following types: Aqueduct, Syphon, Superpassage, Level Crossing, Inlet outlet, Constructional details of the above. 9. Dams: Earthen dams-types, Causes of failure, Classification into masonry & Concrete dams, labelled cross section of goavity dam, Spillways. 10. Water Logging and Drainage: Definition, causes and effects, detection prevention and remedies, surface and sub-surface drains and their layout, field drainage, salinity controlling measures, groundwater recharging measures. 11. Flood Protection: Estimation of flood discharges, systems of flood warning, Fiver behaviors, training works and control, Marginal embankments, their design, causes of failure, spurs & dykes, Attracting & repelling types, Nonsructural flood management, Relief & Rehabilitation measures. 12. Irrigation Management: Checking of Irrigated, areas, raising water charges bills compensation for crop damages, panalties for unauthorised use of Irrigation water, procedure for imposition of panel rates. Canal law and its application, Formation of water users, Associations and their participation in irrigation management, Command area development. 13. Major Irrigation Projection in India. 14. Fluid Machanics: a. Properties of Fluids Hydrostatic Pressure of various types of surface, Measurement of pressure, Kinematics of fluid flow. b. Dynamics of fluid flow, Bernoulli's theorem Measurement of flow, Pilot tube, piezometer, orifices venturi meter, Current meter. c. Flow through pipes-losses and pipe network, water hammer, Reynold's number. d. Flow through open channels-Hydrolic greidience, Equation for Uniform flow, Chezy's and manning formula. Most Economical section. e. Measurement of discharges by (i) weirs and (ii) notch. f. Hydraulic-Pumps (Reciprocating and Centrifugal) Turbines (Impulse & Reaction).

## MECHANICAL ENGINEERING - (Diploma Level) PAPER - I

## PART-A

## Applied Mechanics

**Forces**: transmissibility, moments and couples, funicular polygon, Lam's theorem, Varignon theorem, Friction: limiting and dynamical friction, coefficient of friction: bodies on inclined planes, simple screw jack, **Machines**: basic terms-mechanical advantage, velocity ration, mechanical efficiency. Lifting machines system of pulley's Weston differential pulleys. **Stress and strains**: volumetric and lateral strains Hook's law, Poisson ratio, modules of rigidity, bulk modules. Application to bars and composite sections. **Beams and trusses**: determination cases, Bow's nation. Types of supports. **Graphical methods**: analytical methods of joints and sections. **Thin cylinders and spherical shells**: hoop stress, longitudinal stress. charges in dimensions and volumes of thin shells subjected to internal pressure.

## Theory of Machines and Automobile Technology

Slider crank mechanism: turning moment in single cylinder engine: Fluctuation of speed and energy: crank effort diagrams, flywheel size Gear drive: gear trains, simple, compound epicyclic and reverted. Automobile gear box. Automobile differential. **Clutches**: Function of clutch in automobiles: single plate and multiplate clutches: friction torque for uniform wear and uniform pressure. **Cams**: Concept, classification of different cams and followers. Application to automobile

continued.

engine, simple cam profiles for Uniform velocity, SHM and uniform acceleration, **Balancing**: static and dynamic balancing of masses rotating in same planes, Basic concept of serval masses rotating in different planes, application to automobile engines, **Belt Drive**: Derivation of limiting rations of driving tensions, centrifugal tension. V-belts Ropes and chains **Dynamometers**: Classification functions, construction and working concepts. **Governor**: functions, classification: Watt, Porter Hartnell, Hartung, Elementary numerical about height, maximum and minimum controlling force etc.

#### Mechanics of Solids

**Mechanical properties of materials**: concept of stress and strain, stress-strain curves of mild steel, aluminum, cast iron, rubber etc. various modulli, determination of stresses and strains in bolts, stepped bars, compound bars and columns. Oblique plane. Principal stresses, Mohr circle shear force/Bending moments/ deflection: analysis of cases of concentrated and uniformly load. Shear force and bending moment diagrams: cantilever, simply supported, overhanging beams. **Strain energy**: resilience, derivation of formulae of strain energy for uniform bars in tension, shock load, shear stress. Modulus of resilience. Torsion: solid and hollow circle shafts-polar modulus, weights, power transmitted. **Springs**: close coiled helical springs, Laminated springs. Maximum stress and central deflection, (Simple numerical, no proof of formulae). **Columns and struts**: long and short columns, slenderness ratio. End conditions and equivalent lengths. Euler and Rankine formulae (no derivation).

#### PART B

##### Material Science

**Materials**: Ferrous-iron, steel alloy steels. Nonferrous matels-aluminium, zinc copper, tin, lead Nonmetallic materials-timber, polymers. Basic knowledge of their production. **Structure of materials**: Crystalline, amorphous, arrangement of atoms, Crystal structural, imperfection. Mechanical properties of common metals and alloys, deformation. **Heat treatment**: Iron- carbon equilibrium, TTT curves: recovery, recrystallisation and grain growth. Elementary concepts of hardening, tempering annealing normalizing and case hardening. **Alloy elements**: effects of alloying Cr, Co, Si, Mn etc. Tool steels stainless steels, heat resitsing alloys, spring steel, **Nonferrous materials**: duralumin, solders brass, bronze, gunmetal, inconel, **Non-metallic materials**: timber-ply wood, hard board, seasoning. **Polymers**: thermoplasts and thermosets. Heat insulating materials. Glass wool thermocol, rubber, Electric insulating materials: bakelite, mica refractory materials: composites.

##### Design and Estimating

General design considerations for machine parts: steps in machine design, factor of safety. Mechanical properties of materials, selection of materials. Machine parts subjected to the following loadings: **(I) Direct and shear loads**: threaded connections, cotter and knucle joints. **(II) Bending moment**: design for railway wagon axle and road vehicle axles. Proof load and proof stress. Semi elliptic laminated springs: maximum stress and deflection. **(III) Twisting moment**: solid and hollow shafts. Design of keys and coupling bolts in rigid flanged coupling. **Reveted and welded joints**: types of reveted joints, strength, efficiency, safe load and pitch of revets, lap and butt joints. Common types of welded joints: **Theories of failure**: maximum principal stress theory, maximum shear stress theory, concept of equivalent bending moment and torque. Rolling elements bearing: equivalent load dynamic capacity, life of bearings. **Estimation of material requirements**: estimation of weight of simple machine parts. Review of the area/volume of triangle, hexagon octagon, cylinder, frustum of cone and pyramid etc. **Estimation of time for common operations**: turning, facing threading, drilling, shaping, chamfering, Simple problems pertaining to above. Estimate of cost: concept of costing-direct materials, indirect materials, direct labour, indirect labour, overhead expenses. Break-even analysis. **Cost estimation of welding**: cost of materials, fabrication, welding. Finishing and overhead expenses.

##### Industrial Engineering

**Plant Layout**: general plant locations, selection of plant site. Product layout process layout. **Standardization**: nation and international standards, value of standardization. Standardization techniques and problems. **Quality control**: elements of quality control and objectives. Frequency distribution. X-R charts. P-charts and acceptance sampling concept of production. Inspection and its objectives. Types of inspections. **Work study**: flow process chart, flow diagrams, work measurement, time study. Time and motion study. **Products, planing and control**: sales forecasting and its uses: Planning-products, process. parts, material Optimum batch quantity for production and inventory. Routing dispatching and follow-up activities. **Inventory control**: elements of control procedures. types of controls inventory controls. Inventory control system of bin and records cycle system. Safety stock concepts. **Material Handing**: factors in material handing problems. Reduction of cost and time through improved material handling. **Material handling equipment**: lifting, lowering, transporting and combination devices. **Industrial safety**: need for safety-legal humanitarian, economic and social considerations, Safety at, work place-unsale conditions ad hazards-electrical hazards, lighting, ventilation heat control, noise and vibration, fire and explosion, chemical hazards; hygiene. Brief knowledge of relevant acts like factory act, Workman compensation act, Indian Boiler act, Indian-electricity act, explosive act.

#### MECHANICAL ENGINEERING (Diploma Level) PAPER - II

##### PART - A

##### Thermal Engineering

**Boilers**: fire tube, water tube, mountings and accessories. Equivalent evaporation: efficiencies: **Steam and Gas turbines**: impulse and reaction. Turbine components. Classification. Steam condensers: components and construction features. Internal combustion engines: classification. Two stroke and four stroke engines. Main components and their functions. Air standard cycles: Otto, Diesel, dual, efficiencies. Engine lubrication, cooling systems. **Air compressors**: Types reciprocating and rotary: single stage and two stage compressors. Simple numerical problems.

##### Refrigeration and Air Conditioning

**Refrigeration**: various cycles. COP Representation of cycles in p-V-Ts and P-H diagrams. **Vapour compression system**: wet and dry compression. Domestic refrigerator, Vapour absorption system: cycles of operation. Simple numeric problems. **Refrigerants**: classification, properties-SO<sub>2</sub>, CO<sub>2</sub>, NH<sub>2</sub>, Freon-12 etc. **Air conditioning**: psychometry: Basic ideas of salient terms-dry and wet bulb temperature dew point, enthalpy, sensible heating, humidification and dehumidification, sensible heat factor, Basic knowledge of room air conditioning, Central air conditions systems.

##### Hydraulics & Hydraulic Machines

**Fluid properties**: pressure-depth relationship. Total pressure on lamina: condition of equilibrium of floating bodies, meta center and meta centric height (simple numerical problems). **Fluid dynamics**: types of flow, equation of continuity, Bernoulli equation, orifices, coefficients of contraction, velocity and discharge, Minor losses in fluid flow, Venturimeter, orifice meter, Pilot tube. **Notches and weirs**: rectangular notch, V-notch: Francis and Bazin formulae for rectangular weirs. Broad crested weirs. Flow through pipes: friction loss Darcy Weisbach equation. Simple numerals. **Channels**: uniform flow in rectangular and trapezoidal channels: Chezy and Manning equations. Most economical selections. **Hydraulic Machines**: Impulse and reaction turbines: Pelton: Francis, and Kaplan turbines-constructional and operational features. Velocity diagrams. **Pumps**: centrifugal and reciprocating pumps. Basic knowledge of constructional and operational features.

#### PART - B

##### Manufacturing Processes

**Metal forming processes**: classification on the basic of properties of deformability fusibility such as rolling, forging, drawing, extruding, pressing, punching, blanking, spinning, **Welding**: concept of various welding processes-electric arc, residence thermit, metal-inert-gas, laser beam, election beam, electron beam, explosion and ultrasonic, **Welding of different materials in Industries**: plastics, aluminium, copper, brass, bronze, alloy steels, cast iron stainless steel: oxyacetylene method, welding arcs: initiation, structure, types metal transfer characteristics. Different types of electrodes. Basic knowledge of testing of welds are relevant welding code. **Foundry practice**: patterns and moulding-pattern types, materials allowance, layout, colour scheme, defect. Cores. **Moulding prosses**: mould materials, types of sands, parting powders, sand mixing and preparation. Moulding defects. Melting and pouring Basic knowledge of refractory materials and fluxes. Furnaces-cupola. pit, tilling and electric types. **Special casting**: shell mould casting, die casting, investment mould casting, Centrifugal and continuous casting, full mould casting. **Powder metallurgy**: basic knowledge of the process: production of metal powders, blending, compaction sintering etc. self lubricated bearing Advantages and limitations of the process.

##### Machine Tool Technology & Maintenance

**Machine tools**: basic common features, drive systems, sources of power, work tool holding devices, speed varying systems, mechanical methods of providing automatically in machine tools. **Lathe**: various parts, their functions and kinematics: lathe accessories and attachments. Capstan and turret lathes. Common lathe tools. Operations carried out on lathes such as turning, taper turning, drilling, screw cutting, reaming, knurling. common lathe tools and their uses, simple knowledge of computer numerical control (CNC) lathes and automation, **Milling machines**: types components general maintenance. Operations such as plane milling, angular milling straddle milling, spur gear milling, Indexing, Shaping, planing and slotting machines: components, working principle, quick return mechanism, types of tools used, their geometry, **Drilling and Boring machines**: constructional details and principle of working. Classification such as simple and Radial types. Tools used, Maintenance: general and periodic. **Grinding Machines**: types common abrasive materials grains gifts, speeds and feeds. Use of coolants. **Jigs and Fixtures**: difference between jigs and fixtures, types of jigs cooling processes: coolants and cutting fluids-their functions: selection for difference material and operations.

##### Workshop practice & production Technology

**Workshop technology**: scope in engineering, Brief survey of different shops general contained in a standard engineering workshop viz. carpentry, foundry smithy, sheet metal, fitting painting and machine shops carpentry: common carpentry tools-their classification such as marking and measuring holding and supporting, cutting and sawing, drilling and boring, striking and turning (name of parts functions and specifications only). **Joining of timber components**:- types of joint common defects likely to occur in joints: their causes **Foundry**: basic knowledge of tools used in foundries. **Pattern-types, uses and allowance**: green sand moulding: sand preparation, and additives, parting powders, problems in moulding uses of cores rises gates chills etc. **Smithy**: basic concepts of operations in smithy shop such as fullering, upsetting, swaging, forge welding, drawing down, Tools used in smithy (names, functions and size specifications only) smithy forge, blower, shovel, anvil swage block, striking tools punch, draft and hammers. **Sheet Metal shop**: basic knowledge of operations such as laying out, shearing, blanking, seaming, burning stamping etc. tools in sheet metal shop used for marking, measuring, punching fitting shop: fastener like rivets, bolts, nuts screws, keys, pins etc. (basic understanding only). Tools used in fitting shop such as threading tools, dies taps, vices, wrench and spanners, hack saw, drills, (names function and specifications only) **Painting shop**: surface preparation, sand and emery papers, varnishing and polishing common materials used such as red oxide, putty yellow clay, defects likely to occur in painting and their remedies. **Machine shop**: elementary theory of metal cutting chips-geometry of formation. Brief idea of newer machining processes such as abrasive jet machining, ultrasonic machining, Chemical machining, electric discharge machining, laser beam machining, electron beam machining plasma arc machining. **Metal finishing processes** such as diamond machining, honing lapping buffing etc.

#### ELECTRICAL ENGINEERING (DIPLOMA LEVEL) PAPER-I

##### SECTION - A

##### (Brief Study Of Following Subjects:)

**1. Basic Electrical Engg.:** Basic Terminology and their concept D.C. Circuits, Batteries, Capacitors, Electromagnetism, Electromagnetic induction, A.C. Circuits, polyphase circuits **2. Electrical and Electronic Engg. Materials:** Classification conducting materials, Insulating materials magnetic materials, semiconductor materials, special purpose materials. **3. Electronics-I:** Semiconductor diode, Bipolar Junction Transistor, Basic transistor amplifier, single stage amplifier, Transistor power amplifier, Feedback in amplifier Regulated power supply. **4. Electrical Machine-I:** Generalized treatment D.C. machines, transformer, A.C. generator (Alternator). Voltage regulators.

##### SECTION - B

##### (Brief study of following subjects)

**5. Electrical Instruments and Measurements:** Introduction to Electrical measuring Instruments, Measurement and Errors. Ammeters and Voltmeters (Moving coil and moving iron), Wattmeters (Dynamometer type) and max. demand indicator, Energy meter (induction type) Miscellaneous measuring instruments. Measurement of residence, inductance and capacitance. Elements of Process Instruments. **6. Power plant Engg.:** Thermal stations, Hydro-Electric Plants, Nuclear Power Plants Diesel Power Plants Gasturbine Plants Combined working of Power Plants Major Electrical Equipment in Power Stations Recent Development. **7. Transmission and Distribution of Electrical Powers:** Electrical Design of Lines, Constructional features of transmission lines, Economic principles of transmission, mechanical design of distribution System Lines/Power Factor Improvement, Underground Cables, Carrier Communication. **7. Electronics:** Digital Electronics, Microprocessors, Oscillators, Integrated Electronics. Operational Amplifiers, Communication Engg.

#### ELECTRICAL ENGG. PAPER - II (DIPLOMA LEVEL)

##### SECTION - A

##### (Brief Study of Following Subjects)

**1. Installation Maintenance & Repair of Electrical Machines:** Brief study of: scope & organization Electrical Maintenance Depth, Installation and Installation and commissioning preventive Maintenance of Electrical Equipment and other Installations, trouble shooting, Earthing Arrangements. Insulation testing, Electrical Accidence and safety. **2. Switch Gear and Protection:** Faults, Switch Gear Schemes, Protection against over voltages, Different types of submissions. **3. Industrial Electronics and Control:** Introduction, High power Switching Devices, Thyristor and their operation, Thyristor Applications. Thyristor control of Electrical Machines., Industrial control, servo Mechanism.

##### SECTION - B

##### (Brief Study of Following Subjects)

**4. Electrical design, Drawing & Estimating:** Study of only theoretical aspects. Principles of Estimating and costing Earthing, Estimation of power wiring estimation of OPH and U. Ground

continued..

Distribution Lines Estimation of Service Connections. **5. Utilization of Electrical Energy:** Illumination, Electric heating, Electric Cooling Electric Welding, Electrochemical Processes, Electric Traction, Economic Consideration, **6. Electrical Machine-II:** Introduction Motor, Synchronous motor, F.H.P. motors, Converting Apparatus, Electrical Drives. **7. Elective anyone of the following (only four selected): (i) Control of Electrical Machines:** Control components AC. control circuits, control of synchronous motors. Control of single phase Motors, Industrial control circuits Trouble shooting in control circuits, "OR" **(ii) Process control & Instrumentation:** Introduction, control system components. Instrument Transformer, Transducers, Process Instrumentation. "OR" **(iii) Electric Traction:** Introduction, Electric traction drives, Power Supply for traction, Mechanics of traction, Rectification Equipment, Overhead Equipment, Tract Circuit, Supervisory remote control. Rail and return path. "OR" **(iv) Non conventional Sources of Energy & Appropriate Technology :** Introduction, Wind Energy, solar Energy, Tidal Power, Appropriate Technology.

OR

**ELECTRICAL ENGG. (Industrial Control) DIPLOMA STREAM****SECTION - A****(Brief Study of Following Subjects)**

**1. Installation, Maintenance & Repair of Electrical Machines:** Syllabus is common (same) with Electrical Engg. Diploma Stream. **2. Switch Gear And Protection :** Syllabus is common (same) with Electrical Engg. Diploma Stream. **3. Industrial Control-1:** Speed control of D.C. motors, Speed control three phase Induction motors. Solid State control of single phase A.C. motors, Control components, Electromagnetic controllers. Solid state control of synchronous motors.

**SECTION - B****(Brief Study of Following Subjects)**

**4. Industrial Control - II:** Electric Drives, Electric Braking. Refrigeration & Air Conditioning. Process Instrumentation. **5. Control System & Process Application:** Introduction, Components and devices used in Control System, I/O relationship of simple control system components. Stability criterion, Performance of Control System, Automatic control actions. Controllers in Process control, Discrete Data System. **6. Principles of Digital Electronics :** Introduction, Number System, Codes, code conversion and parity. Logic Gates, Logic Families and Digital ICs, Logic simplification. Arithmetic Operations, Ex-coder, Decoders & Display devices associated circuits. Flip Flops, Counters, Shift Registers, Memories A/D and D/A converters Arithmetic circuits. **7. Electrical & Electronics Instrumentation:** Instruments transformers, transducers. Data Acquisition System, Recorders, Display devices, Electronics Equipments.

**AGRICULTURAL ENGINEERING : PAPER - I (Diploma Level)****SECTION - A****1. FARM POWER ENGINEERING & NON CONVENTIONAL SOURCES OF ENERGY.**

**INTRODUCTIONS:** Sources of power on farms, comparative study and uses. Limitation and brief description of animal, fossil fuel (Diesel/petrol) wind, solar, Biogas and electric power. **I.C. ENGINES:** Principles Heat engine, principle of operation, classification of I.C. Engines, principles of operation two stroke and four stroke engine. Diesel and petrol engine, stationary, reciprocating and rotary parts, their material of construction and functions. Concept of terms related with I.C. engine, Numerical problems related with different terms. Performance of engine. **TRACTOR:** **INTRODUCTION :** Classification of tractor and adoptability. Factors affecting selection of tractor. General idea about different makes, models, in different H.P. ranges of tractors. **HOURLY COST OF OPERATION:** Hourly cost of operation of small petrol engine, diesel engine and tractor.

**2. NON CONVENTIONAL ENERGY: BIO-GAS TECHNOLOGY:** Introduction to Biogas, production of Biogas, Bio-digestion of plants and animals waste, reaction taking place during bio-digestion, gases produced during the process, elimination of unwanted gases such as CO<sub>2</sub> and H<sub>2</sub>S. Factors affecting production of gas, efficiency of Bio-gas plants in winter, uses of biogas. **WIND ENERGY TECHNOLOGY:** Types of wind mills- Vertical axis and Horizontal axis. Various uses of wind mills. Site selection for a wind mill construction, working and maintenance of wind mills. **SOLAR ENERGY TECHNOLOGY:** Solar radiation and potentially of solar radiation in India. Application of solar energy. Solar collector.

**SECTION - B**

**3. POST HARVEST TECHNOLOGY & AGRO BASED INDUSTRIES:** **INTRODUCTION:** Importance of grain and seed processing principles of agricultural processing, sequence of operation, Flow digestion services offered by processor of farmers: Wheat, Maize, paddy and Soyabean. **AGRO-BASED INDUSTRIES:** Sugercane crushing, Khandsari and Gur making process and equipment, vegetable and animal waste utilization, bye products of Soyabean and potato, dehydration of vegetables.

**4. FARM & LAND DEVELOPMENT MACHINERY : FARM MECHANIZATION:** Definition, Status of Farm mechanization in India, Scope, limitation, advantages. Primary and Secondary tillage equipment, Sowing and Planting equipment, Harvesting and threshing equipment, Land Development equipment: construction, operating and output of the following Dozen Scraper, Draghoe and Dragline.

**AGRICULTURAL ENGINEERING : PAPER - II (Diploma Level)****SECTION - A**

**1. IRRIGATION AND DRAINAGE ENGINEERING :** **INTRODUCTION:** Definition of Irrigation, History of Irrigation, Necessary and scope of Irrigation. **WATER REQUIREMENT OF PLANTS:** Types of soil, soil properties in relation of Irrigation and drainage, classes and availability of soil water, Evaporation, transpiration, evapotranspiration, consumptive use, estimating crop water requirements, duty of water, delta. Assessment Irrigation water requirements of different crops, estimation of depth and time of Irrigation, different criteria for irrigation scheduling depending upon soil- plant-atmospheric factor. **IRRIGATION METHODS:** Surface and subsurface methods, sprinkler and drip system of irrigation and conjunctive use. Measurement of irrigation efficiencies, water conveyance, storage, application, distribution and water use efficiency. **DRAINAGE ENGINEERING:** Definition, necessity, water logging salinity, its control interrelationship of irrigation, drainage, drainage coefficient. Different types of surface and subsurface drainage system.

**2. MINOR IRRIGATION:** Importance, necessity and advantages of minor irrigation, Land survey, method of levelling, determination of cuts and fill. Importance and necessity of levelling. Sources of minor irrigation. Definition of tubewell, need, advantage & disadvantage, characteristics of tubewell site, factor affecting site selection.

**SECTION - B**

**3. SOIL & WATER CONSERVATION AND LAND RECLAMATION ENGINEERING:** Mechanics, types and causes of soil erosion, factors affecting erosion, damages caused by soil erosion. Agronomical measures for soil & water conservation: Contour farming, mulching, strip cropping, cover cropping, mixed cropping, role of grasses in soil conservation. Mechanical method of erosion control: Field bunding, contour bunding, graded bunding, ridge and channel terraces. Gully erosion control: Classification of gullies, control of gullies by temporary and permanent structures: earthen check dams, brush dams, loose rock dams, straight drop spillway. **LAND RECLAMATION :** Classification of user soils, salty resistant crops, reclamation of user soils. Reclamation of waste lands forest lands and sandy soils, sanddunes stabilization. **RAVINE RECLAMATION:** Classification of ravines and various measures for ravine reclamation.

Secretary