



UTTAR PRADESH PUBLIC SERVICE COMMISSION

Combined State Engineering Services (General/Special Recruitment)

Date of Commencement of On-line Application: 17.12.2024

Last Date for Receipt of Examination Fee in the Bank and Submission of On-line Application: 17.12.2024

Last Date for Fee Reconciliation & Correction/Modification in submitted On-line Application: 17.12.2024

IMPORTANT

- (1) (a) It is mandatory for the candidates to make One Time Registration (O.T.R.) and obtain O.T.R. Number before applying online.
 (b) Those Candidates who have not obtained O.T.R. Number, may obtain it from commission's website <https://otr.pariksha.nic.in> 72 hours before the submission of Online application.
 (c) Only after obtaining O.T.R. Number a candidate may submit online application through commission's website <https://uppsc.up.nic.in>.

(2) At the time of online application the candidates are directed to ensure the preservation of information regarding all the stages (i.e. O.T.R., Fee payment, Final submission, Qualification related modification/Error correction etc.) in Soft/Hard copy for future references.

(3) It is clarified to the candidates that at the stage of Preliminary examination, the hard copy of the documents and On-line application should not be sent to the Commission.

(4) The candidates must send hard copy of their on-line applications and enclose self attested copies of all marksheets and certificates in support of their claims rendered in the online application when asked for. In this connection, a separate press communique shall be published in due course by the Commission.

SPECIAL NOTICE:-

(a) The candidates will be entirely responsible for on-line submission of application. The application of the candidate will be accepted only after the payment of the fee in the bank till the last date of fee submission.

(b) Candidates are also directed to visit the website of the commission for updates. All future information/instructions will be sent to the candidates on their mobile number and email ID as linked in O.T.R. by SMS or email.

1. IMPORTANT INFORMATION FOR CANDIDATES APPLYING ONLINE

This advertisement is available on the website of the commission <https://uppsc.up.nic.in>. 'O.T.R. BASED APPLICATION' system is applicable for applying against this advertisement. Application sent through any other medium will not be accepted. Therefore candidates have to apply online only.

The candidates applying online are expected to go through the following instructions thoroughly and apply accordingly:-, When the candidate clicks on the "ALL NOTIFICATIONS/ ADVERTISEMENTS" in the Commission's website <https://uppsc.up.nic.in>, the 'ONLINE ADVERTISEMENT' will automatically be displayed, which has following 3 parts:-

- (i) User Instructions
- (ii) View Advertisement
- (iii) Apply

The Instructions for filling Online form have been given in User Instructions. The candidates desirous to see the respective advertisement will have to click on "View Advertisement". Thereafter, a full advertisement will be displayed along with Sample Snapshots of Online Application procedure.

'Online Application' will be completed in four Stages:-

First Stage:- On clicking 'Apply', 'Authenticate with O.T.R.' will be displayed with respect to the examination and on clicking 'Authenticate with O.T.R.', 'Have You Completed Your O.T.R. Registration' will be displayed, in which the candidate will have to tick 'Yes' or 'No'. If the candidate:-

(i) Ticks on 'Yes' and clicks on 'Go' button, 'Enter your O.T.R. Number' will be displayed wherein he/she has to fill O.T.R. Number and click on 'Proceed' button. On clicking 'Proceed' button, 'Click here to Authenticate' will be displayed, clicking whereupon the candidate may authenticate through O.T.P. received on his/her registered mobile no./email ID or O.T.R. password. Having completed the process of Authentication, all personal details of the candidate (as filled in O.T.R.) will be displayed automatically. The candidate will have to fill only essential qualification as required for the post.

(ii) Ticks on 'No' and clicks on 'Go' button:- (a) First of all, the candidate has to obtain One Time Registration Number from O.T.R. Web-portal (<https://otr.pariksha.nic.in>) of the Commission. (b) After obtaining O.T.R. number the candidate will have to apply online according to the process adopted in First Stage.

Second Stage:- The First Stage procedure having been completed the 'Applicant Dashboard' will automatically be displayed on the screen. The candidate will have to click on 'Submit Details' under 'Application Part-2' against applied post, thereafter the permanent and correspondence address along with application form will automatically be

concealed or misrepresented any information, proceeding to debar him from future examination.

(4) As per decision of the UPPSC a candidate who has been debarred from appearing in the examination and all other future examinations for a period of five years for furnishing any wrong information in the application substantiated by relevant documents or for any other reason.

(5) If any change is to be made in the personal details of the candidate, it is mandatory to Synchronise it on the Dashboard and the same will not be allowed. In this regard any on-line /off-line application for error correction/amendment. Incomplete application and correspondence will be entertained in this regard.

(6) The candidature of such candidates who are not eligible to the terms laid down in advertisement will be rejected. Examination will not be entertained. The decision of the Commission on the candidates shall be final.

(7) The Application/candidature will be rejected if the candidate mentioned, candidate is overage or underage, does not possess educational qualifications, applications received without declaration in the format.

(8) The Commission may admit the candidature of candidates whose applications but if it is found at any stage that the candidate's application was not found entertainable initially, the candidate is selected and recommended by the Commission for the appointment shall be liable to be debarred.

(9) In the event of involvement of a candidate in any criminal case, information, pendency of any case/criminal case, wife being alive, submission of facts in a distorted manner in candidature/ selection etc, the Commission reserves the right to debar him from appearing in the examination and selections.

2. Application Fee: After completing the process of application, the application process, deposit the fee category wise at the following stage. The prescribed fee of preliminary Examination is as follows:-

(i) Unreserved/Economically Weaker Sections/other Backward Classes	-	₹ 500
(ii) Scheduled Castes/ Scheduled Tribes	-	₹ 250

(iii) Persons with disabilities (PWDs)	-	₹ 100
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(iv) Ex-Servicemen	-	₹ 100
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(v) Dependents of the Freedom Fighters/ Women/Skilled Player	-	₹ 100
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3. The U.P. Public Service Commission shall hold various Centres for selecting suitable candidates for admission to the Services Main Examination. The Main Examination will be conducted by the commission. The selection will be made on the basis of the candidates in the Main Examination and Interview. The final selection decided by the Commission, will be intimated to the candidates by the Admission Certificate.

4. No. of vacancies:- Presently the number of vacancies is 582, Special Recruitment-22, the details of which are given in the advertisement. **Pay Scale:-** Level-10 (Rs. 15600-39100/-)

Note:- In special circumstances, on the request of the candidates, the vacancies of the above advertised posts may be filled up.

must mention their category/ subcategory (one or more than one, whichever) in the column related to O.T.R. because all the personal information will be automatically displayed in the application form from the O.T.R.

(5) The Candidates claiming for the benefit of reservation/age relaxation must obtain, in support of their category a certificate issued by competent authority on the proforma available in **Appendix-1** of this detailed advertisement and shall submit the same to the Commission when asked for.

(6) Candidates claiming reservation/Age relaxation in more than one category will be entitled to only one concession, whichever is more beneficial to them.

(7) The Scheduled Caste, Scheduled Tribes, Other Backward classes, Economically Weaker Sections (E.W.S.), Dependents of Freedom Fighter, PH., Skilled players of classified games and Ex-Servicemen candidates who are not the permanent residents of U.P. shall not be given the benefit of reservation/age relaxation.

(8) In case of women candidates, the caste certificate issued from father side only will be treated valid.

(9) It is mandatory for the candidates to enclose self-attested copies of all the certificates along with the application forms of Main Examination in support of the claims made by them in their application forms of Preliminary Examination regarding eligibility and category/sub category, failing which their claim shall not be entertained.

6. Conditions of Eligibility: In case of Emergency Commissioned/ Short Service Commissioned Officers (For age relaxation only):- In accordance with the provisions 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 or on his own request and who gets gratuity.

7. 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'ble Governor has granted an exemption from this condition.

8. EDUCATIONAL QUALIFICATIONS:

Sl No.	Name of Post/ Name of Deptt.	Qualifications
1.	Asstt. Engg. (Mechanical), Irrigation and Water Resources Department	अनिवार्य:- (1) सरकार द्वारा मान्यता प्राप्त किसी संस्था या विश्वविद्यालय से यांत्रिक अभियंत्रण में उपाधि रखता हो, या (2) इन्स्टीट्यूट ऑफ इंजीनियर्स (इंडिया) का मैकेनिकल इंजीनियरिंग ब्रांच का एक अर्ह एसोसिएट मेम्बर हो। अधिमानी:- अन्य बातों के समान होने पर सीधी भर्ती के मामले में ऐसे अभ्यर्थी को अधिमान दिया जाएगा, जिसने (1) प्रादेशिक सेना में न्यूनतम 02 वर्ष की अवधि तक सेवा की हो, या (2) राष्ट्रीय कैडेट कोर का 'बी' प्रमाण-पत्र प्राप्त किया हो, या (3) प्रशिक्षणार्थी के रूप में एक वर्ष का प्रशिक्षण सफलतापूर्वक पूर्ण कर लिया हो।
2.	Asstt. Engg. (Civil), U.P. Jal Nigam (Rural)	अनिवार्य:- किसी व्यक्ति की सेवा की सिविल शाखा में सीधी भर्ती द्वारा तब तक भर्ती नहीं किया जायेगा जब तक कि:- (1) वह उक्त प्रयोजन के लिए सरकार द्वारा मान्यता प्राप्त किसी संस्था या विश्वविद्यालय से सिविल अभियंत्रण में स्नातक अथवा उसके समकक्ष उपाधि न रखता हो या (2) उसमें अभियन्ता संस्था (भारत)/इन्स्टीट्यूशन ऑफ इंजीनियर्स इंडिया की सहायक अभियन्ता सदस्यता/सदस्यता परीक्षा (एसोसिएट मेम्बरशिप/मेम्बरशिप) का भाग 'ए' और 'बी' उत्तीर्ण न किया हो। (नोट:- समकक्षता का तात्पर्य उ0प्र0 सरकार के अतिरिक्त भारत गणराज्य के अन्य प्रदेशों द्वारा मान्यता प्राप्त संस्थाओं/विश्वविद्यालयों से सिविल में स्नातक उपाधि से है।) अधिमानी:- ऐसे अभ्यर्थी को जिसने:- (1) दो वर्ष की न्यूनतम अवधि तक प्रादेशिक सेना में सेवा की हो और (2) राष्ट्रीय कैडेट कोर का 'बी' प्रमाण-पत्र प्राप्त किया हो, अन्य बातों के समान होने पर सेवा में सीधी भर्ती के मामले में अधिमान दिया जाएगा।
3.	Asstt. Engg. (Electrical/Mechanical), U.P. Jal Nigam (Rural)	अनिवार्य:- किसी व्यक्ति की सेवा की यांत्रिक शाखा में सीधी भर्ती द्वारा तब तक भर्ती नहीं किया जायेगा जब तक कि :- (1) वह उक्त प्रयोजन के लिए सरकार द्वारा मान्यता प्राप्त किसी संस्था या विश्वविद्यालय से विद्युत और/या यांत्रिक अभियंत्रण में प्रदान की गयी स्नातक अथवा उसके समकक्ष उपाधि न रखता हो या (2) उसने विद्युत और/या यांत्रिक अभियंत्रण में अभियन्ता संस्था (भारत) की सहयुक्त सदस्यता/सदस्यता परीक्षा का भाग 'ए' और 'बी' उत्तीर्ण न किया हो। (नोट:- समकक्षता का तात्पर्य उ0प्र0 सरकार के अतिरिक्त भारत गणराज्य के अन्य प्रदेशों द्वारा मान्यता प्राप्त संस्थाओं/विश्वविद्यालयों से विद्युत/

		Territorial Army for obtained a 'B' certificate successfully completed other things being of direct recruitment (नोट:-लोक निर्माण अनु-लोक निर्माण अनुभाग-अनुसार-'or a qualification equivalent there to अर्हता से तात्पर्य इन्स्टीट्यूट ऑफ एसोसिएट मेम्बर
8.	U.P. Agriculture Service Group 'B' Grade-2 (Engineering Branch), Agriculture Department	Essential:- Bachelor from a University recognised by Government (नोट:-कृषि निदेशक, 18.03.2024 के अनुसार) Preferential:- (1) Engineering from a a qualification recognised thereto. (नोट:-कृषि निदेशक, उ0प्र0 के अनुसार समकक्ष अर्हता) (2) A candidate who a minimum period certificate of National equal, be given preference
9.	Asstt. Director, Energy Department	Essential:- Bachelor from a University Associate Member of Electrical Engineering Preferential:- A Territorial Army for obtained a 'B' certificate other things being of direct recruitment
10.	Asstt. Engineer (Civil), Irrigation and Water Resources Directorate	अनिवार्य:- सहायक अभियन्ता अर्हतायें होनी आवश्यक विश्वविद्यालय से सिविल ऑफ इंजीनियर्स (इंडिया) में मेम्बर हो। अधिमानी:- अन्य बातों को अधिमान दिया जाएगा अवधि तक सेवा की हो, किया हो, या (3) प्रशिक्षण कर लिया हो।
11.	Asstt. Engineer. (Civil), Medical Health and Family Welfare Deptt.	Essential:- (1) A Bachelor from a University established by the Government Member of the Engineering Branch (नोट:- उ0प्र0 सरकार 3428ई0वी0आर0/23-अधिसूचना जिसमें उ0प्र0 क्लास-टू (संशोधन) निविवरण के अनुसार:- कि जायेगा जब तक कि- (क) वह सरकार द्वारा स्नातक (सिविल) की उपाधि (ख) वह इंस्टीट्यूशन ऑफ इंजामिनेशन का सेवशन (ग) वह सिटी एण्ड गिल टेक्नालॉजी साउथ केन इक्जामिनेशन उत्तीर्ण न (घ) वह इंस्टीट्यूशन सहयुक्त सदस्य (एसोसिएट परन्तु 06 अगस्त, 1966 र "ए" और "बी" को उत्ती (ङ) उसने केन्द्रीय या भारत के किसी विश्वविद्या की हो।) Preferential:- A candidate (1) served in the

(सर्वजनिक स्वास्थ्य शाखा) सेवा नियमावली, 1978, relaxation in Age Limit is permissible as follows:- ऐसे अभ्यर्थियों की दशा में जो पहले पूर्ववर्ती स्वायत्त शासन अभियंत्रण विभाग में नियुक्त किये गये हो और जिनका अनुमोदन लोक सेवा आयोग द्वारा न किया गया हो, विनियम-5 (1) (क) (एक) के अधीन भर्ती के प्रयोजनार्थ आयु सीमा 40 वर्ष होगी।

(f) For the post Asstt. Engineer (Electrical/Mechanical) and Asstt. Engineer (Civil) in Housing and Urban Planning Deptt. (U.P. Development Authorities Centralised Service), according to the provision of Rule-11(Age) of U.P. Development Authority Centralized Service Rules, 1985, relaxation in Age Limit is permissible as follows:-

(1) in the case of a person who has already rendered one year's service or more in any of the service in the Development Authority, the maximum age limit shall be greater to the extent he has rendered continuous service or for a period of seven years whichever is less:

(2) a candidate, who was entitled in respect of his age to appear at a selection in any year in which no selection is made though a vacancy existed, shall be deemed to be entitled in respect of his age to appear at the next following selection;

10. SOME INFORMATION ABOUT COMBINED STATE ENGINEERING SERVICES; MAIN EXAMINATION AND INTERVIEW:-

(i) Only such candidates will be admitted to the Main Examination who are declared successful in Preliminary Examination for which the successful candidates will have to fill up another application form according to instructions of the Commission and for this application, the examination fee for Unreserved (General), Economically weaker sections, Other Backward Classes and for Candidates of Other States is Rs. 200/- and Rs. 25/- as online processing fee = Rs. 225/- and for Scheduled Caste and Scheduled Tribe candidates of U.P. the fee is Rs. 80/- and Rs. 25/- as on-line processing fee = Rs. 105/- . The candidates of Physically Handicapped category of U.P. are exempted from fee but they have to pay Rs. 25/- only as on-line processing fee, Candidates of Ex-Army Personnels of U.P. Exam Fees is Rs. 80/- and Rs. 25/- as on-line processing fees = Rs. 105/- only but the candidates of D.F.F. of U.P./Women/ Skilled Sports Person candidates of U.P. shall have to deposit their fees according to their original category.

(ii) For the Combined State Engineering Services Main Examination, the candidates are required to fill up and submit their Online Application and deposit required fee.

(iii) Candidates should carefully note that they will have to appear in the Main Examination against the same Roll No. as allotted for the Preliminary Examination.

(iv) The dates and venue for the Main Examination shall be informed by the Commission later on through e-Admit Cards.

(v) Only such candidates will be called for interview who are declared successful on the basis of the Main Examination.

(vi) Candidates will have to fill up the prescribed application form before the Interview (viva-voce test).

(vii) Preferences for different posts will be asked at the time of Interview which will be treated final and no change therein will be admitted. In this regard no application for error correction/Modification shall be acceptable.

(viii) 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 have received last education or by a Gazetted Officer at the time of Interview.

(ix) Candidates serving under the Central or State government will have to produce 'No Objection Certificate' at the time of interview, issued by the competent authority as to their employment.

(x) It is essential for the candidates to appear in the interview who qualify on the basis of Main Examination.

NOTE: The candidates must enclose self attested copies of all Marksheets/certificates in support of their claims rendered in the application form for Main Examination of the Combined State Engineering Services Examination 2024. If they do not enclose and send their self attested copies of all Marksheets/certificates in support of their claims till last date of application, their candidature shall be cancelled.

11. IMPORTANT INSTRUCTIONS FOR CANDIDATES:-

(1) 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 Main Examination. No other certificate shall be acceptable for Date of Birth and if it is not attached with the application, it shall be rejected.

(2) The benefit of reservation to the categories of Physically Handicapped persons of society shall be given only on the posts which shall be Identified by the government for their Sub category. For this benefit, the Handicapped persons must produce a certificate of being handicapped in that sub category issued by Medical Officer/Specialist and counter signed by the Chief Medical Officer according to Rule 3 of U.P. Public Service (Reservation for physically Handicapped, Dependent of Freedom Fighters and Ex-Servicemen) (Amendment) Act, 2021.

(3) The Ex-Army Personnels must be discharged from Army upto the last date prescribed for receipt of applications.

(4) Date, time and venue etc. of examination along with Roll No. will be communicated to the candidates through e-Admit Cards. Candidates will have to appear only at the centre/venue allotted to them by the Commission. No change in centre/venue is permissible and no application shall be entertained in this regard.

(5) The Commission reserves the right of cancelling the candidature of any candidate

(i) There are four alternatives for the answer to ev a wrong answer has been given by the candidate that question will be deducted as penalty.

(ii) If a candidate gives more than one answer, it one of the given answer happens to be correct an that question.

(iii) If a question is left blank i.e. no answer is penalty for that question.

(13) The minimum efficiency standard for S.C. Candidates of these Categories shall not be pl secured less than 35% marks in the Preliminary/ efficiency standard for the candidates of other ca shall not be placed in the merit/select list if they Preliminary/Main examination. All such candidate marks of minimum efficiency standard as fixed by the

(14) The candidates of reserved categories w category in the final selection only if he/she will n qualifying standard at the stage of Preliminary/M

(15) If it is found that a candidate has submit be debarred from all selections of UPPSC sections of Bharatva Nyaya Sanhita will also

(16) The candidates whose candidature are ca candidates after the cancellation of candidature shall not be provided.

GENERAL INSTR

1. In no circumstances, applications of any prescribed date and time. Applications found w photograph and signature, even when received i

2. In the On-line system, the candidates must en been duly filled and must submit by the last presc the Print and keep it safely. In any discrepancy, said print to the commission's office otherwise no

3. Those candidates, willing to take the benefit obtain a certificate, issued by the competent auth in the prescribed format printed in this detailed ac same to the Commission, whenever required to o reservation/age relaxation will be given only or beneficial. The Candidates who are not originally d

E.W.S., dependents of freedom fighters, Ex-Se are not entitled to the benefit of reservation/ candidates, the caste certificate issued from fath

4. The Commission do not advise to candidate should carefully read the advertisement and per conditions of the advertisement, only then the requisite qualifications till the last date for s

5. In the category of dependents of the freedom (Son's son/Daughter's son) and grand daughte married/unmarried) are covered. It is advised th must obtain the reservation certificate from the D

No. 453/79-V-1-15-1(ka) 14-2015, dated 07.04. the same.

6. In case the candidates feel any problem in the problem resolved by sending their queries to the

7. Proforma of cast certificates are available Preliminary Examination are available in **Ap Examination are available in Appendix-3; releva in Appendix-4**, and details of the vacancies are

Detailed Application Form:
At the online page there is a 'Declaration' for the c through the contents of the Declaration carefully, or disagree with the contents of Declaration by buttons. In case the candidate opts to 'I do not a the procedure will be terminated. Acceptance submission of the candidate's Online Application

Notification Details
This section shows information relevant to Notif type, directorate/ department name and post nan

Personnel Details from OTR
This section shows information about candidat candidate name, Father/ Husband name, Gend status, email and contact number, photo & sign Army, service duration and your physical challen

U.P., Debarred candidate.

APPENDIX-1

उ0प्र0 की अनुसूचित जाति तथा अनुसूचित जनजाति के लिये जाति प्रमाण-पत्र (प्रारूप-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-पत्र)

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी सुपुत्र/ सुपुत्री निवासी तहसील नगर जिला उत्तर प्रदेश राज्य की पिछड़ी जाति के व्यक्ति हैं। यह जाति उ0प्र0 लोक सेवा (अनुसूचित जातियों, अनुसूचित जनजातियों और 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 उ0प्र0 लोक सेवा (अनुसूचित जातियों, अनुसूचित जनजातियों और अन्य पिछड़े वर्गों के लिये आरक्षण) (संशोधन) अधिनियम, 2001 द्वारा प्रतिस्थापित किया गया है एवं जो उ0प्र0 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 आठ 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।

(प्रपत्र-I)

उत्तर प्रदेश सरकार

कार्यालय का नाम.....

आर्थिक रूप से कमजोर वर्ग के सदस्य द्वारा प्रस्तुत किया जाने वाला आय एवं परिसम्पत्ति प्रमाण-पत्र प्रमाण पत्र संख्या..... दिनांक

वित्तीय वर्ष के लिए मान्य

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी..... पुत्र/पति/पुत्री..... ग्राम/कस्बा..... पोस्ट ऑफिस थाना तहसील जिला राज्य पिन कोड के स्थायी निवासी हैं, जिनका फोटोग्राफ नीचे, अभिप्रमाणित है, आर्थिक रूप से कमजोर वर्ग के सदस्य हैं, क्योंकि वित्तीय वर्ष में इनके परिवार की कुल वार्षिक आय 8 लाख (आठ लाख रुपये मात्र) से कम है। इनके परिवार के स्वामित्व में निम्नलिखित में से कोई भी परिसम्पत्ति नहीं है:-

- I. 5 (पाँच) एकड़ कृषि योग्य भूमि अथवा उससे ऊपर।
- II. एक हजार वर्ग फीट अथवा इससे, अधिक क्षेत्रफल का प्लैट।
- III. अधिसूचित नगरपालिका के अंतर्गत 100 वर्ग गज अथवा इससे अधिक का आवासीय भूखण्ड।
- IV. अधिसूचित नगरपालिका से इतर 200 वर्ग गज अथवा इससे अधिक का आवासीय भूखण्ड।

2. श्री/श्रीमती/कुमारी जाति के सदस्य हैं जो अनुसूचित जाति, अनुसूचित जनजाति तथा अन्य पिछड़े वर्गों के रूप में अधिसूचित नहीं हैं।

आवेदक का पासपोर्ट साइज का अभिप्रमाणित फोटोग्राफ हस्ताक्षर(कार्यालय का मुहर सहित) पूरा नाम पदनाम जिलाधिकारी/अतिरिक्त जिलाधिकारी/सिटी मजिस्ट्रेट/परगना मजिस्ट्रेट/तहसीलदार।

(प्रपत्र-II)

आर्थिक रूप से कमजोर वर्ग के लाभार्थ स्वयं घोषणा पत्र स्वयं घोषणा पत्र

मैं पुत्र/पुत्री/पत्नी ग्राम/कस्बा पोस्ट ऑफिस थाना ब्लाक तहसील जिला राज्य ने आर्थिक रूप से कमजोर वर्ग के प्रमाण पत्र हेतु आवेदन दिया है, एतद् द्वारा घोषणा करता/करती हूँ।

1. मैं जाति से सम्बन्ध रखता/रखती हूँ, जो उत्तर प्रदेश हेतु अधिसूचित अनुसूचित जाति, अनुसूचित जनजाति, एवं अन्य पिछड़ा वर्ग की सूची में सूचीबद्ध नहीं है।
2. मेरे परिवार की कुल श्रोतों (वेतन, कृषि, व्यवसाय, पेशा इत्यादि) से कुल वार्षिक आय रु (शब्दों में) है।
3. मेरे परिवार के पास उल्लिखित आय के सिवाय अथवा इसके अतिरिक्त अन्यत्र कोई परिसम्पत्ति नहीं है।

अथवा
कई स्थानों पर स्थित परिसम्पत्तियों को जोड़ने के पश्चात भी मैं (नाम) आर्थिक रूप से कमजोर वर्ग के दायरे में आता/आती हूँ।

4. मैं घोषणा करता/करती हूँ कि मेरे परिवार की सभी परिसम्पत्तियों को जोड़ने के पश्चात् निम्नलिखित में से किसी भी सीमा से अधिक नहीं है।

- I. 5 (पाँच) एकड़ कृषि योग्य भूमि अथवा उससे ऊपर।
- II. एक हजार वर्ग फीट अथवा इससे, अधिक क्षेत्रफल का प्लैट।

- blindness (Please tick as applicable)

(B) The diagnosis in his/her case is _____
(C) he/she has _____% (in figure) _____ locomotor disability/dwarfism/blindness in _____ as per guidelines (.....number and _____ specified).

2. The applicant has submitted the following

Nature of Document	Date of Issue	D

3. Signature and seal of the Medical Authority (Dr.....) (Dr.....) (Dr.....)
Member Medical Board with seal Member Medical Board with seal

Signature/thumb impression of the person in whose favour certificate of disability is issued

Form-II Certificate of Disability (In cases of multiple disabilities)

(Name and Address of the Medical Authority)

Certificate No. _____

This is to certify that we have carefully evaluated the person/wife/daughter of Shri _____ Date of birth _____ age _____ years, male/ female _____ Registration No. _____ permanent _____ Ward/Village/Street _____ Post Office _____ whose photograph is affixed above, and am satisfied (A) he/she is a case of Multiple Disability. His/her extent of permanent disability is _____ evaluated as per guidelines (.....number and _____ specified) for the disabilities ticked below, and is _____ Table below:

S. N.	Disability	Affected part of body
1.	Locomotor disability	@
2.	Muscular Dystrophy	
3.	Leprosy cured	
4.	Dwarfism	
5.	Cerebral Palsy	
6.	Acid attack Victim	
7.	Low Vision	#
8.	Blindness	#
9.	Deaf	£
10.	Hard of Hearing	£
11.	Speech and Language disability	
12.	Intellectual Disability	
13.	Specific Learning Disability	
14.	Autism Spectrum Disorder	
15.	Mental illness	
16.	Chronic Neurological Conditions	
17.	Multiple sclerosis	
18.	Parkinson's disease	
19.	Haemophilia	

**Form-IV
Certificate of Disability
(In cases of other than those mentioned in Forms
II and III)**

(Name and Address of the Medical Authority/Board issuing the Certificate)

Recent passport size
attested photograph
(showing face only) of
the person with disability

Certificate No.

Date:

This is to certify that we have carefully examined
Shri/Smt./Kum. _____ son/wife/daughter of Shri _____ Date of birth
(DD/MM/ YY) _____ age _____ years, male/ female _____ Registration No.
_____ permanent resident of House No. _____ Ward/Village/
Street _____ Post Office _____ District _____ State _____,
whose photograph is affixed above, and am satisfied that he/she is a case of Disability.
His/her extent of percentage physical impairment/disability has been evaluated as per
guidelines (.....number and date of issue of the guidelines to be specified) and is shown
against the relevant disability in the table below:-

S. N.	Disability	Affected part of body	Diagnosis	Permanent physical impairment/mental disability (in%)
1.	Locomotor disability	@		
2.	Muscular Dystrophy			
3.	Leprosy cured			
4.	Cerebral Palsy			
5.	Acid attack Victim			
6.	Low Vision	#		
7.	Deaf	£		
8.	Hard of Hearing	£		
9.	Speech and Language disability			
10.	Intellectual Disability			
11.	Specific Learning Disability			
12.	Autism Spectrum Disorder			
13.	Mental illness			
14.	Chronic Neurological Conditions			
15.	Multiple sclerosis			
16.	Parkinson's disease			
17.	Haemophilia			
18.	Thalassemia			
19.	Sickle Cell disease			

Please strike out the disabilities which is not applicable)

2. The above condition is progressive/non-progressive/ likely to improve/not likely to improve.

3. Reassessment of disability is:-

(i) not necessary,
or

(ii) is recommended/after.....years.....(iii) months, and therefore this
certificate shall be valid till.... (DD) (MM) (YY)

@ e.g. Left/right/both arms/legs

e.g. Single eye/both eyes

£ e.g. Left/Right/both ears

4. Signature and seal of the Medical Authority.

Name and Seal of Member	Name and Seal of Member	Name and Seal of the Chairperson
-------------------------	-------------------------	----------------------------------

Signature/thumb impression
of the person in whose favour

Countersigned by the
Chief Medical Officer

स्थान
दिनांक

नोट : यह प्रमाण-पत्र नेशनल फेडरेशन / नेशनल एसोसिएशन
होने पर ही मान्य होगा।

प्रारूप -

(मान्यता प्राप्त क्रीड़ा/खेल में अपने प्रदेश की ओर
खिलाड़ी के लिये) सम्बन्धित खेल की प्रदेशीय एसोसिएशन
सेवाओं/पदों पर नियुक्ति के लिए कुशल
प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी
..... निवासी (पूरा पता)ने दिनांक.....
खेल-कूद का नाम) की प्रतियोगिता (टूर्नामेन्ट स्थान का नाम)
खेल- कूद का नाम) की प्रतियोगिता / टूर्नामेन्ट में प्रदेश की ओर
उनके टीम के द्वारा उक्त प्रतियोगिता / टूर्नामेन्ट में
यह प्रमाण-पत्र (प्रदेशीय संघ का नाम) में
स्थान
दिनांक

नोट : यह प्रमाण-पत्र प्रदेशीय खेल-कूद संघ के सचिव द्वारा
होगा।

प्रारूप -

(मान्यता प्राप्त क्रीड़ा/खेल में अपने विश्वविद्यालय की ओर
खिलाड़ी के लिये) विश्वविद्यालय की ओर
विश्वविद्यालय का नाम राज्य स्तर की सेवाओं/पदों पर
प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी
..... निवास (पूरा नाम) दिनांक
दिनांक से दिनांक तक
..... (क्रीड़ा/ खेल-कूद का नाम) प्रतियोगिता/टूर्नामेन्ट में
लिया। उनके टीम के द्वारा उक्त प्रतियोगिता/टूर्नामेन्ट में
डीन ऑफ स्पोर्ट्स अथवा इंचार्ज खेल कूद विश्वविद्यालय
स्थान
दिनांक

नोट : यह प्रमाण-पत्र विश्वविद्यालय के डीन ऑफ स्पोर्ट्स या
हस्ताक्षर होने पर ही मान्य होगा।

प्रारूप -

(मान्यता प्राप्त क्रीड़ा/खेल में अपने स्कूल की ओर से
के लिये) डाइरेक्ट्रेट ऑफ पब्लिक इन्सट्रक्शन्स/निदेशक
राज्य स्तर की सेवाओं/पदों पर नियुक्ति के लिए
प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी
..... निवासी (पूरा पता) में
..... से दिनांक तक (स्थान का नाम) में
(क्रीड़ा/खेल-कूद का नाम) प्रतियोगिता/टूर्नामेन्ट में
द्वारा उक्त प्रतियोगिता/टूर्नामेन्ट में स्थान प्राप्त
यह प्रमाण-पत्र डाइरेक्ट्रेट ऑफ पब्लिक इन्सट्रक्शन्स/शिक्षा में
स्थान
दिनांक

नोट : यह प्रमाण-पत्र निदेशक / या अतिरिक्त / संयुक्त या उप
..... द्वारा व्यक्तिगत रूप से हस्ताक्षर होने पर मान्य होगा।

Appendix

3090 सम्मिलित राज्य अधि
प्रथम चरण-प्रारम्भिक
परीक्षा-योजना

प्रश्नपत्र - एक (वस्तुनिष्ठ प्रकारक)
प्रश्नों की संख्या - 150 (सामान्य ज्ञान-25 प्रश्न, सामान्य विज्ञान-125 प्रश्न)
कुल अंक - 300 (प्रत्येक प्रश्न 2 अंक)
समयावधि - 2 घंटा

प्रारम्भिक परीक्षा मात्र अर्हकारी होगी जिसमें मा0 आयोग द्वारा
चरण (मुख्य परीक्षा) में सम्मिलित होने हेतु सफल किये जायेंगे।

21. Recent development in applied sciences
22. Role of Science & Technology in daily life

Appendix-3

द्वितीय चरण—मुख्य परीक्षा की योजना एवं पाठ्यक्रम
सम्मिलित राज्य अभियन्त्रण सेवा परीक्षा हेतु वस्तुनिष्ठ प्रकार के निम्नवत् दो
प्रश्न-पत्र होंगे:-

प्रथम प्रश्न पत्र

विषय	प्रश्नों की संख्या	अंक	कुल अंक	समय
1- सामान्य हिन्दी	25 (प्रत्येक प्रश्न 3 अंक)	75	375	2.30 (दोई) घण्टा
2- मुख्य विषय (सिविल इंजी०- I, मैके० इंजी०- I, विद्युत इंजी०- I, कृषि इंजी०- I)	100 (प्रत्येक प्रश्न 3 अंक)	300		
द्वितीय प्रश्न पत्र				
विषय	प्रश्नों की संख्या	अंक	कुल अंक	समय
1- सामान्य अध्ययन	25 (प्रत्येक प्रश्न 3 अंक)	75	375	2.30 (दोई) घण्टा
2- मुख्य विषय (सिविल इंजी०- II, मैके० इंजी०- II, विद्युत इंजी०- II, कृषि इंजी०- II)	100 (प्रत्येक प्रश्न 3 अंक)	300		

तृतीय चरण—व्यक्तित्व परीक्षा (साक्षात्कार) – 100 अंक

कुल योग

$$- 375 + 375 + 100 = 850 \text{ अंक}$$

पाठ्यक्रम

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।

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।

CIVIL ENGINEERING

PAPER-1

PART-A

ENGINEERING MECHANICS, STRENGTH OF MATERIALS AND STRUCTURAL ANALYSIS.

Units and Dimensions, SI units, vectors, concept of force, Concept of particle and rigid body concurrent, Non-Concurrent and parallel forces in a plane, moment of force and varignon's theorem free body diagram, conditions of equilibrium Principle of virtual work, equivalent force system.

First and second Moment of area, Mass moment of inertia, Static Friction, inclined plane and bearings, kinematics and kinetics, kinematics in Cartesian and Polar Coordinates, motion under uniform and non-uniform acceleration, motion under gravity, Kinetics of particle: Momentum and Energy principles, D Alembert's principle, Collision of elastic bodies, rotation of rigid, bodies, simple harmonic motion.

STRENGTH OF MATERIALS:

Simple Stress and Strain, Elastic constants, axially loaded compression members, Shear force and bending moment, theory of simple bending, bending stress, Shear Stress, beams of uniform strength, Leaf Spring, close coiled helical springs, Strain Energy in direct Stress, bending & Shear. Deflection of beams; Macaulay's method, Mohr's Moment area method, Conjugate beam method, unit load method, Torsion of Shafts, Transmission of power, Elastic stability of columns, Euler's Rankin's and Secant formulae. Principal stresses and strains in two dimensions, Mohr's Circle, Theories of Elastic Failure, Thin and Thick cylinder, Stresses due to internal and external pressure-Lame's equations.

STRUCTURAL ANALYSIS: Castiglianos theorems I and II, Unit load method of consistent deformation applied to beams and pin jointed trusses. Slope-deflection, moment distribution, Kani's method of analysis and column Analogy method applied to indeterminate beams and rigid frames. Rolling loads, and influence lines: Influence lines for reactions of beam, shear force and bending moment at a section of beam. Criteria for maximum shear force and bending moment in beams traversed by a system of moving loads, influence lines for simply supported plane pin jointed trusses, Arches: Three hinged, two hinged and fixed arches, rib shortening and temperature effects, influence lines in arches, Matrix methods of analysis: Force method and displacement method of analysis of indeterminate beams and rigid frames. Plastic Analysis of beams and frames: Theory of plastic bending, plastic analysis, statical method, Mechanism method. Unsymmetrical bending: Moment of inertia, product of inertia, position of neutral axis and

flooring, roofing and construction features. Retr of building for residents and specific uses, Nati Basic principles of detailed and approxin analysis, principles of valuation of real proper and their specific uses, factors effecting s operating cost of equipments. Constructio quality assurance principles. Basic principle construction monitoring, cost optimization an of economic analysis and methods. Project p planning, simple toll fixation criterions.

PART - I

GEO TECHNICAL ENGINEERING AND FOUNDATION

Types of soils, phase relationships, consist classifications of soils, structure and clay minera pore water pressure, Darcy's Law, factors a permeability, permeability of stratified soil de condition, compressibility and consolidation, consolidation, consolidation test.

Compaction of soil, field control of compac parameters, pore pressure parameters, shear theory, shear tests.

Earth pressure at rest, active and passive press theory, Graphical method of earth pressure on excavation, bearing capacity, Terzaghi and o bearing pressure.

Immediate and consolidation settlement, stability methods, conventional methods of slices, sta

methods of boring, sampling, penetration tests, p

foundation, types of foundation, design criteri

distribution in soils, Boussinessq's theory, W

pressure bulb, contact, pressure, applicability

evaluation of bearing capacity from filed tests,

analysis, allowable settlement, proportioning of

rafts, pile foundation, types of piles, plies capaci

pile groups, pile load test, settlement of piles late

improvement techniques: sand drains, stone

geotextiles and geomembrane, Machine fou

machine foundations based on the recommenda

CIVIL ENGINEERING

Part - A

FLUID MECHANICS, OPEN CHANNEL FL

HYDROPOWER ENGINEERING.

Fluid Mechanics: Fluid properties and their ro

forces acting on plane and curved surfaces, k

Velocity and acceleration, stream lines, equatio

flow, velocity potential and stream functions, flow

and sink, flow separation, free and forced vorties

Flow control volume equation, continuity, mor

Stokes equation, Euler's equation of motion an

flow, plane, curved, stationary and moving vane

Venturi meters.

Dimensional Analysis and Similitude: Bu

parameters, similitude theory, model laws, undist

Laminar Flow: Laminar flow between parallel, s

pipes.

Boundary Layer: Laminar and turbulent bounda

smooth and rough boundaries, submerged fl

Turbulent flow through pipes: Characteristics of

friction factor, hydraulic grade line and total

contractions in pipes pipe networks, water ham

Open Channel Flow: Flow types, uniform and n

correction factors, Specific energy and specific f

and roughness coefficient, rapidly varied flow,

jump and its applications, waves and surges,

surface profiles, control section, Integration of va

HYDRAULIC MACHINES AND HYDROPOWER

Centrifugal pumps-Types, characteristics, Net

speed, Pumps in series and parallel. Reciproca

efficiency parameters, Rotary and positive displac

Hydraulic turbines: types, classification, Choic

controls, characteristics, specific speed. Principles o

and component works, surge tanks, 'types and cho

crossings, different types of turn outs, cross-over, setting out of points, Maintenance of track, super elevation, creep of rails ruling gradients, track resistance tractive effort, curve resistance, Station yards and station buildings, platform sidings, turn outs, Signals and interlocking, level crossings.

Air port Engineering: Layouts, Planning and design.

Part - D

Environmental Engineering

Water supply: Estimation of water demand, impurities in water and their significance, physical, chemical and bacteriological parameters and their analysis, waterborne diseases, standards for potable water.

Water collection & treatment: Intake structures, principles and design of sedimentation tank, coagulation cum flocculation units slow sand filter, rapid sand filter and pressure filter, theory & practices of chlorination, water softening, removal of taste and salinity, Sewerage Systems, Domestic and industrial wastes, storm, sewage, separate and combined systems, flow through sewers, design of sewers.

Waste water characterization: Solids, Dissolved oxygen (DO), BOD COD, TOC, and Nitrogen, Standards for disposal of effluent in normal water course and on to land.

Waste water treatment: Principles and design of wastewater Treatment units-, Screening, grit chamber, sedimentation tank activated sludge process, trickling filters, oxidation ditches, oxidation ponds, septic tank; Treatment and disposal of sludge; recycling of waste water.

Solid waste management: Classification, Collection and disposal of solid waste in rural and urban areas, Principles of solid waste management.

Environmental pollution: Air and water pollution and their control acts. Radioactive waste and their disposal Environmental impact assessment of Thermal power Plants, mines and river valley projects, Sustainable development.

Part-E

Survey and Engineering Geology

(a) Surveying: Common methods and instruments for distance and angle measurements in Civil Engineering works, their use in plane table traverse survey, levelling, triangulation, contouring and topographical maps. Survey layouts for culverts canal, bridge, roads, railway alignment and buildings.

Basic principles of photogrammetry and remote sensing.

Introduction to Geographical information system.

Engineering Geology

Basic concepts of Engineering geology and its applications in projects such as dams, bridges and tunnels.

MECHANICAL ENGINEERING

PAPER-I

1. Engineering Mechanics:

Analysis of force systems, friction, centroid and centre of gravity, trusses and beams principle of virtual work, kinematics and kinetics of particle, kinematics and kinetics of rigid bodies.

2. Mechanism and Machines:

Velocity and acceleration of links, cams and followers gears and gear trains clutches, belt drives, brakes and dynamometers, Flywheel and governors, balancing of rotating and reciprocating masses, balancing of multi cylinder engines, Free and forced vibration damped vibration, whirling of shafts.

3. Mechanics of Solids:

Stresses and strains, compound stresses strains, Torsion of circular shafts, stresses and deflections in beams unsymmetrical bending, curved beams, Thin and thick cylinders and spheres, Buckling of columns, Energy methods, helical and leaf springs.

4. Design of Machine Elements:

Design for Static and dynamic loading, Theories of failure, fatigue principles of design of rivetted, welded and bolted joints, shafts, springs, bearings, brakes, clutches and flywheels.

5. Engineering Materials:

Crystal systems and crystallography, crystal imperfections, Alloys and phase diagrams, Heat treatment, ferrous and non ferrous metals and alloys, Mechanical properties and testing.

6. Manufacturing: Metal casting, metal forming, metal joining, Mechanics of metal cutting, machining and machine tool operations, unconventional machining methods limits, fits and tolerances, inspection: Surface roughness, comparators, computer integrated manufacturing, Flexible manufacturing systems, jigs and fixtures

7. Industrial Engineering:

Production, planning and control, inventory control and operation, research, CPM and PERT.

8. Mechatronics and Robotics:

Microprocessors and microcontrollers, Architecture, Programming, Computer interfacing Programmable logic controller, sensors and actuators, Piezoelectric accelerometers, Hall effect sensors, optical encoder, resolver, Inductosyn, Pneumatic and Hydraulic Actuators, stepper motor, control system, mathematical modeling, control signals, controllability and observability, Robotics: Robot classification, robot specification. Notation: Direct and inverse kinematics homogeneous co-ordinates and arm equation of four axis SCARA Robot.

MECHANICAL ENGINEERING

PAPER-II

ELECTRICAL ENGINEERING

PAPER - I

Networks and Systems: Steady-state and Thevenin's-, Norton's-, Superposition- and Maximum Average Power Transfer functions, Two-port networks, Laplace analysis in Network analysis, Z-transforms for discrete systems.

E.M. Theory: Analysis of electrostatic and magnetic fields, Maxwell equations, solution of boundary value problems, wave propagation, ground and space waves, Propagation constants.

Control systems: Mathematical modelling of dynamic systems, Block diagrams and Signal flow graphs, time-response analysis, Routh- Hurwitz criterion, Nyquist techniques, stability analysis, Lag-, Lead-, Lag-Lead-compensators, transition matrix, controllability and observability.

Elements of Electronics: Basics of semiconductor devices, characteristics, different types of transistors and their frequency response, feedback oscillators, common emitter amplifier, Operational amplifiers-characteristics and applications.

Power System Analysis and Design: Line parameters, Transmission lines. Mechanical design of overhead lines, radio interference Parameters of single- and three-phase lines, Load flow equations and methods of solutions, Unbalanced-faults analysis, Power system stability analysis, travelling Waves, EHV Transmission, HVDC transmission, Control and Economic operation, Concepts of smart grid power, smart grid concepts.

Elements of Electrical Machines:- General concepts of rotating machines, DC Machines: motor and generator characteristics, commutation and armature reaction, Synchronous Machines: performance, regulation, starting, characteristics and applications, Transformer: equivalent circuit, efficiency, and voltage regulation, autotransformer.

Measurement:- Basic methods of measurement, Bridges and Potentiometers; moving coil, Moving iron instruments, measurement of voltage, current, power, Instrument transformers, digital voltmeters and digital multimeters, measurement. Q-meters Oscilloscopes, Basics of Instrumentation systems for pressure and temperature measurement.

ELECTRICAL ENGINEERING

PAPER - II

Power Electronics and Drives: Semiconductor devices, diodes, triacs, GTOs, MOSFETS and IGBTs static characteristics, triggering circuits single phase and three-phase half controlled, smoothing and filters regulated converters, Inverters, speed control circuits for DC and A.C. motor, quadrant operation, reversing and braking of electric traction motors.

Digital Electronics: Boolean algebra, logic gates, combinational circuits, multiplexers, multivibrators, sample and hold, basics of filter circuits and applications, active filters.

Microwaves and Communication systems: Basics of wave guide components, resonators, microwave tubes, antennas.

Analog Communication basics: modulation and demodulation, transmitters and receivers, signal to noise ratio, quantizing, coding frequency- and time-domain multiplexing, antennas, transmission lines at audio and ultra-high frequencies.

Induction and special Machines: Three-phase induction motor, field, Torque-slip characteristics, Equivalent Circuit, starters, speed control, Induction generators. Synchronous motor, phasor diagrams, characteristics, starting and applications. E.m.f. equation and phasor diagram and performance of reluctance motors, brushless DC motors (BLDC).

Power system protection and Switch gear: Protection of power system voltages and recovery voltage, testing of circuit breakers, schemes for power system equipment, surges in power system.

Numerical Methods: Solution of non linear algebraic equations, methods for solution of differential equations.

Electrical Engineering Materials: Crystal structure, magnetic and magnetizing Materials, super-conductors.

Elements of Microprocessors: Data representation, floating point-numbers. Organization and programming of RAM memories CPU of a microcomputer, peripheral devices and communication.

AGRICULTURAL ENGINEERING

PAPER-II

(a) Hydraulics and Fluid Mechanics: Fluid properties, units and dimensions: surface tension and capillarity, equation of continuity, Bernoulli equation, Laminar and turbulent flow, steady and unsteady flow, Flow of fluids in pipes and open channels, design of open channels for non erosive and non silting velocities, most economical cross section, measurement of irrigation water and other water measuring devices viz. weirs, notches, orifices and flumes.

(b) Surveying and Leveling: Linear measurements; survey methods and devices used; principle of leveling, simple, differential and profile leveling; Contouring and characteristics of contour lines; Land leveling and grading, earth work estimation.

(c) Soil and Water Conservation Engineering: Forms of precipitation; hydrologic cycle; Point rainfall analysis, frequency analysis, agricultural watershed and its management; water management in agri-horti-aquaculture system, mechanics of water and wind erosion; Rational method of prediction of peak runoff and its limitations; concept of unit hydrograph and instantaneous hydrograph; factors affecting erosion and runoff; water erosion control measures - contour cultivation, strip cropping, terracing, afforestation pastures; Design of gully control structures - temporary and permanent; stream bank erosion; flood routing; flood amelioration by upstream soil water management; wind erosion control measures and sand dunes stabilization.

(d) Irrigation Pumps: Design, construction, performance characteristics, selection installation, servicing and maintenance of different pumps (reciprocating, centrifugal gear, turbine, submersible, propeller, jet); Hydraulic ram; Renewable and non-renewable power sources for pumping solar pumps.

(e) Irrigation and Drainage Engineering: Water wealth and irrigation in India; Soil water plant relationship; Forms and occurrence of soil water; methods and devices for soil moisture measurement; water requirement of crops; irrigation scheduling; irrigation methods their hydraulics and design flood, border, furrow, sprinkler and drip irrigation, concept of irrigation efficiencies; water conveyance and control; Design of canals. Lacey and Kennedy's theories.

Drainage needs and its benefits; Darcy's Law, hydraulic conductivity; drainage coefficient; drainage methods, surface drainage (drainage of flat and sloping lands); design of open ditches their alignment and construction; designs and layout of subsurface drains; depth and spacing of drains and drainage outlets; installation of drains and drainage wells; drainage of salt affected areas.

(f) Ground Water Hydrology and Tube well Engineering: Occurrence and movement of ground water, steady and transient flow into wells, well interference, well drilling, design of well assembly and gravel pack, installation of well screen, completion and development of wells.

(g) Rural Engineering: Building materials and their properties; Farmstead planning, and design of dairy barns; poultry, goat-sheep, and piggy housing: selection of site. planning and design of rural houses, farm roads, village drainage; waste disposal and sanitary structures; cost estimates, green house construction.

Appendix-4

Relevant Service Rules of Related Posts

- उत्तर प्रदेश अभियंता सेवा (सिंचाई विभाग) (समूह-'ख') नियमावली, 2007
- उत्तर प्रदेश जल निगम अभियंता (सार्वजनिक स्वास्थ्य शाखा) सेवा विनियमावली, 1978 (यथासंशोधित)
- The Uttar Pradesh Rural Engineering (Group-'B') Service Rules, 1993 (as amended)
- The Uttar Pradesh Development Authorities Centralised Services Rules, 1985 (as amended)
- The Uttar Pradesh Urban Planning and Development (Amendment and Validation) Act, 1985
- The Uttar Pradesh Urban Planning and Development (Amendment and Validation) Ordinance, 1984
- The Uttar Pradesh Public Works Department Group-'B' Civil Engineering Service Rules, 2004 (as amended)
- The Uttar Pradesh Agriculture Group-'B' Service Rules, 1995
- The Uttar Pradesh Engineering (Directorate of Electrical Safety) Service Rules, 2002
- The Uttar Pradesh Service of Civil Engineers, Medical Health and Family Welfare Department Service Rules, 1998 (as amended)
- उत्तर प्रदेश सर्विस ऑफ इंजीनियर्स (बिल्डिंग एण्ड रोड्स ब्रांच) क्लास-टू (संशोधन) नियमावली, 1987
- The Uttar Pradesh Assistant Engineer's Combined Competitive Examination Rules, 2014
- The Uttar Pradesh Assistant Engineer's Combined Competitive Examination (First Amendment) Rules, 2018

Appendix-5

(i) General Recruitment

Sl No.	Name of Department	Name of Post	Branch	No. of Vacancies	U	S	S	O	E	D	P	E	F
					R	C	T	B	W	F	H	x	S M

	Service)			
6.	Housing and Urban Planning Deptt. (U.P. Development Authorities Centralised Service)	Asst. Engineer (Civil)	Civil	40
7.	Public Works Deptt. (P.W.D.)	Asstt. Engineer (Civil)	Civil	22
8.	Agriculture Department	U.P. Agriculture Service Group-'B' Grade-2 (Engineering Branch)	Agri-culture	12
9.	Energy Department	Asstt. Director	Electrical	07
10.	Irrigation and Water Resources Directorate	Asstt. Engineer (Civil)	Civil	20
11.	Medical, Health & Family Welfare Deptt.	Asst. Engineer (Civil)	Civil	06
Total Vacancies				58

(ii) Special Recruitment

12.	Irrigation and Water Resources Directorate	Asstt. Engineer (Civil)	Civil	2
• शासनादेश संख्या-3/2021/324/2021/65-3-के अनुसार दिव्यांगजन की चिन्हांकित उपश्रेणियों का पदव्य				
क्र.सं.	पद का नाम			
1.	Asstt. Engg. (Mechanical), Irrigation and Water Resources Department			
2.	Asstt. Engg. (Civil), U.P. Jal Nigam (Rural)			
3.	Asstt. Engg. (Electrical/Mechanical), U.P. Jal Nigam (Rural)			
4.	Asstt. Engineer (Civil), Rural Engineering Deptt.			
5.	Asstt. Engineer (Electrical/Mechanical), Housing and Urban Planning Deptt. (U.P. Development Authorities Centralised Service)			
6.	Asstt. Engineer (Civil), Housing and Urban Planning Deptt.			