



# UNION PUBLIC SERVICE COMMISSION

EXAMINATION NOTICE NO. 04/2011-ENGG.

DATE : 8.01.2011

LAST DATE FOR RECEIPT OF APPLICATIONS 07.02.2011

## ENGINEERING SERVICES EXAMINATION, 2011

(COMMISSION'S WEBSITE : <http://www.upsc.gov.in>)

### IMPORTANT

#### 1. CANDIDATES TO ENSURE THEIR ELIGIBILITY FOR THE EXAMINATION:

The candidates applying for the examination should ensure that they fulfil all eligibility conditions for admission to the Examination. Their admission at all the stages of the examination will be purely **provisional** subject to satisfying the prescribed eligibility conditions.

**Mere issue of Admission Certificate to the candidate will not imply that his/her candidature has been finally cleared by the Commission.**

Commission take up verification of eligibility conditions with reference to original documents only after the candidate has qualified for Interview/Personality Test.

#### 2. HOW TO APPLY

**(a) Candidates are required to apply Online only by using the website <http://www.upsconline.nic.in>.** Detailed instructions for filling up online applications are available on the above mentioned website. However candidates residing in certain remote areas specified in Para 6 of this Notice, may also apply through offline mode, by using the common Application Form being used for examinations conducted by the Commission. This form can be purchased from the **designated Head Post Offices/Post Offices** (specified in Appendix-III of the Notice) throughout the country against cash payment of **Rs. 20/- (Rupees twenty only)**. Each such Form can be used only once and only for one examination.

In case of any difficulty in obtaining Application Forms from the designated HPOs/POs the candidates should immediately contact the concerned Post Master or UPSC's **"FORMS SUPPLY MONITORING CELL" over Telephone No. 011-23389366/Fax No. 011-23387310**. It may be noted that all offline applications, if any, received from candidates residing in normal areas/abroad, shall be summarily rejected by the Commission. The option of offline application is available only to candidates residing in specified remote areas.

(b) Candidates are advised to read carefully the Instructions for filling up the Online Application Form given in Appendix-II (A) and Instructions for Offline Applications given in Appendix-II (B) of this Notice.

#### 3. LAST DATE OF RECEIPT OF APPLICATIONS :

##### (A) Online (From all candidates)

The Online Applications can be filled upto **7th February, 2011 till 11.59 PM** after which the link will be disabled.

##### (B) Offline (From candidates residing in specified remote areas only)

All Offline Applications from candidates residing in remote areas only, specified in para 6 of this Notice must reach the "Controller of Examinations, Union Public Service Commission, Dholpur House, Shahjahan Road, New Delhi-110069 by Post/Speed Post only by 14th February, 2011. Candidates should note that no application will be received by Hand or by Courier.

#### 4. PENALTY FOR WRONG ANSWERS (in Objective Type Papers) :

Candidates should note that there will be penalty (Negative Marking) for wrong answers marked by a candidate in the Objective Type Question Papers.

#### 5. FACILITATION COUNTER AND WEBSITE FOR GUIDANCE OF CANDIDATES :

In case of any guidance/information/clarification regarding their applications, candidature etc., candidates can contact UPSC's Facilitation Counter near Gate 'C' of its campus in person or over **Telephone Nos. 011-23385271/011-23381125/011-23098543** on working days between 10.00 hrs. and 17.00 hrs.

The Commission also has Website at address : <http://www.upsc.gov.in> over which the candidates can obtain details of the examination as well as information about registration of their applications, venue of the examination and results etc.

#### 6. SPECIAL INSTRUCTIONS :

Candidates are advised to read carefully the Instructions/Guidelines for filling up the Application Form (Appendix II) and "Special Instructions to the Candidates for Conventional Type Tests and Objective Type Tests" (Appendix IV Part A and Part B).

#### 7. MOBILE PHONES NOT PERMITTED :

(a) Mobiles phones, pagers or any other communication devices are not allowed inside the premises where the examination is being conducted. Any infringement of these instructions shall entail disciplinary action including ban from future examinations.

(b) Candidates are advised in their own interest not to bring any of the banned items including mobile phones/pagers to the venue of the examination, as arrangements for safekeeping cannot be assured. Commission will not be responsible for any loss in this regard.

**8. Candidates are advised not to bring any valuable/costly items to the Examination Halls, as safe keeping of the same cannot be assured. Commission will not be responsible for any loss in this regard.**

**Candidates are required to apply only through Online mode (except candidates residing in remote areas specified in para 6 of this Notice who have the option of applying through offline or online mode).**

**No.F. 2/5/2010-E.I(B):** A combined competitive examination for recruitment to the Services/posts mentioned in para 2 below will be held by the Union Public Service Commission at AGARTALA, AHMEDABAD, AIZAWL, ALIGARH, ALLAHABAD, BANGALORE, BAREILLY, BHOPAL, CHANDIGARH, CHENNAI, CUTTACK, DEHRADUN, DELHI, DHARWAD, DISPUR, GANGTOK, HYDERABAD, IMPHAL, ITANAGAR, JAIPUR, JAMMU, JORHAT, KOCHI (COCHIN), KOHIMA, KOLKATA, LUCKNOW, MADURAI, MUMBAI, NAGPUR, PANAJI (GOA), PATNA, PORT BLAIR, RAIPUR, RANCHI, SAMBALPUR, SHILLONG, SHIMLA, SRINAGAR, THIRUVANANTHAPURAM, TIRUPATI, UDAIPUR AND VISHAKHAPATNAM commencing on **14th May, 2011** in accordance with the Rules published by the Ministry of Railways (Railway Board) in the Gazette of India Extra- ordinary dated the **8th January, 2011**.

THE CENTRES AND THE DATE OF HOLDING THE EXAMINATION AS MENTIONED ABOVE ARE LIABLE TO BE CHANGED AT THE DISCRETION OF THE COMMISSION. WHILE EVERY EFFORT WILL BE MADE TO ALLOT THE CANDIDATES TO THE CENTRE OF THEIR CHOICE FOR EXAMINATION, THE COMMISSION MAY, AT THEIR DISCRETION ALLOT A DIFFERENT CENTRE TO A CANDIDATE WHEN CIRCUMSTANCES SO WARRANT. CANDIDATES ADMITTED TO THE EXAMINATION WILL BE INFORMED OF THE TIME TABLE AND PLACE OR PLACES OF EXAMINATION.

The candidates should note that no request for change of centre will normally be entertained. However, when a candidate desires a change in centre from the one he had indicated in his Application Form for the Examination, he must send a letter addressed to the Controller of Examination, Union Public Service Commission giving full justification as to why he desires a change in centre. Such requests will be considered on merits but requests received in the Commission's Office after **7th March, 2011** will not be entertained under any circumstances nor will such communications be replied to.

**2. (A)** Recruitment on the results of this examination will be made to the Services/ Posts under the following categories:-

**Category I—Civil Engineering.**

**Category II—Mechanical Engineering.**

**Category III—Electrical Engineering.**

**Category IV—Electronics & Telecommunication Engineering.**

The number of vacancies to be filled on the results of the examination is expected to be approximately **745** including 50 PH vacancies.

The number of vacancies is liable to alteration.

Reservations will be made for candidates belonging to Scheduled Castes, Scheduled Tribes, Other Backward Classes and Physically Disabled Category in respect of vacancies as may be fixed by the Government of India.

### CATEGORY I

#### CIVIL ENGINEERING

*Group A Services/Posts*

- (i) Indian Railway Service of Engineers.
- (ii) Indian Railway Stores Services (Civil

- Engineering Posts).
- (iii) Central Engineering Service.
- (iv) Indian Defence Service of Engineers (Civil Engineering Posts).
- (v) Indian Ordnance Factories Services (Engineering Branch) (Civil Engineering Posts).
- (vi) Central Water Engineering Gr. 'A' Service (Civil Engineering Posts).
- (vii) Central Engineering Service (Roads) Group-A. (Civil Engg. Posts)
- (viii) Assistant Executive Engineer (Civil

- Engineering Post) (in Border Roads Engineering Service Gr. 'A').
- (ix) Assistant Executive Engineer (Civil) in P&T Bldg. Works (Gr. 'A') Service.

### CATEGORY II

#### MECHANICAL ENGINEERING

*Group A Services/Posts*

- (i) Indian Railway Service of Mechanical Engineers.
- (ii) Indian Railway Stores Service (Mechanical Engineering Posts).
- (iii) Central Water Engineering Gr. 'A' Ser-

- vice (Mechanical Engineering Posts).
- (iv) Central Power Engineering Service (Mechanical Engineering Posts).
- (v) Indian Ordnance Factories Service (Engineering Branch) (Mechanical Engineering Posts).
- (vi) Indian Naval Armament Service (Mechanical Engineering Posts).
- (vii) Assistant Executive Engineer Group 'A' (Mech. Engg. Posts) in the corps of EME, Ministry of Defence.
- (viii) Assistant Naval Stores Officer, Grade-I (Mechanical Engineering Posts) in Indian Navy.
- (ix) Central Electrical & Mechanical Engineering Service (Mechanical Engineering Posts).
- (x) Assistant Executive Engineer Group 'A' in the Geological Survey of India.
- (xi) Indian Supply Service, Group 'A' (Mechanical Engineering Posts).
- (xii) Indian Defence Service of Engineers (Mechanical Engineering Posts).

### CATEGORY III

#### ELECTRICAL ENGINEERING

*Group A Services/Posts*

- (i) Indian Railway Service of Electrical Engineers.
- (ii) Indian Railway Stores Service (Electrical Engineering Posts).
- (iii) Central Electrical and Mechanical Engineering Service (Electrical Engg. Posts).
- (iv) Indian Naval Armament Service (Electrical Engineering Posts).
- (v) Indian Ordnance Factories Service (Engineering Branch) (Electrical Engineering Posts).
- (vi) Central Power Engineering Service (Electrical Engineering Posts).
- (vii) Indian Defence Service of Engineers (Electrical Engineering Posts).
- (viii) Assistant Naval Stores Officer, Grade-I (Electrical Engineering Posts) in Indian Navy.
- (ix) Indian Supply Service Group 'A' (Electrical Engineering Posts).

### CATEGORY IV

#### ELECTRONICS AND TELECOMMUNICATION ENGINEERING

*Group A & B Services/Posts*

- (i) Indian Railway Service of Signal Engineers.
- (ii) Indian Railway Stores Service (Telecommunication/Electronics Engineering Posts).
- (iii) Indian Ordnance Factories Service (Engineering Branch) (Electronics Engineering Posts).
- (iv) Indian Naval Armament Service (Electronics Engineering Posts).
- (v) Assistant Executive Engineer Group 'A' (Electronics & Telecommunication Engineering Posts) in the Corps of E.M.E., Ministry of Defence.
- (vi) Engineer (GCS-Gr-'A') in Wireless Planning and Co-ordination Wing/Monitoring Organisation. (M/o Communications & I.T., D/o Telecommunications).
- (vii) Assistant Naval Stores Officer Grade-I (Electronics & Telecom Engineering Posts) in Indian Navy.
- (viii) Indian Supply Service, Group 'A' (Electronics & Telecommunication

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Engineering Posts).

(ix) Indian Telecommunication Service. Gr. 'A'.

(x) Junior Telecom officer Group 'B' in Indian Telecommunication Service.

**Note:-** Recruitment to the Services/Posts mentioned above will be made on the basis of the scheme(s) of examination prescribed in Appendix-I to the Notice. Candidates who are declared qualified on the result of written part of the examination will be required to indicate their preference for Services/Posts at the appropriate time in the Detailed Application Form.

**N.B. (i)**—DEPARTMENTAL CANDIDATES ARE THE CANDIDATES ADMITTED TO THE EXAMINATION UNDER AGE RELAXATION VIDE RULE 5(B). SUCH CANDIDATES MAY GIVE THEIR PREFERENCES FOR THE SERVICES/POSTS IN OTHER MINISTRIES/DEPARTMENTS ALSO.

**N.B. (ii)**—Candidates admitted to the examination under the proviso to para 3(III) will be considered only for the posts mentioned in the said proviso and their preference for other Services and Posts, if any, will be ignored.

**N.B. (iii)**—The candidates will be allotted to various Services/Posts strictly in accordance with their merit position, preferences exercised by them and number of vacancies, subject to their medical fitness.

**2 (B)** A candidate may apply for admission to the examination in respect of anyone of the categories of the Services/Posts mentioned in para 2 above viz. Civil Engineering or Mechanical Engineering or Electrical Engineering or Electronics & Telecommunication Engineering.

### 3. ELIGIBILITY CONDITIONS:

#### (I) Nationality:

A candidate must be either:

- a citizen of India, or
- a subject of Nepal, or
- a subject of Bhutan, or
- a Tibetan refugee who came over to India before the 1st January, 1962 with the intention of permanently settling in India, or
- a person of Indian origin who has migrated from Pakistan, Burma, Sri Lanka or East African countries of Kenya, Uganda, the United Republic of Tanzania, Zambia, Malawi, Zaire and Ethiopia or from Vietnam with the intention of permanently settling in India.

Provided that a candidate belonging to categories (b), (c), (d) and (e) above shall be a person in whose favour a certificate of eligibility has been issued by the Government of India.

A candidate in whose case a certificate of eligibility is necessary, may be admitted to the examination but the offer of appointment may be given only after the necessary eligibility certificate has been issued by the Government of India.

#### (II) Age Limits:

(a) A candidate for this examination must have attained the age of 21 years and must not have attained the age of 30 years on the **1st August, 2011** i.e. he/she must have been born not earlier than **2nd August, 1981** and not later than **1st August, 1990**.

(b) The upper age limit of 30 years will be relaxable upto 35 years in the case of Government Servants of the following categories, if they are employed in a Department/Office under the control of any of the authorities mentioned in column 1 below and apply for admission to the examination for all or any of the Service(s)/Post(s) mentioned in column 2, for which they are otherwise eligible.

(i) A candidate who holds substantively a permanent post in the particular Department/Office concerned. This relaxation will not be admissible to a probationer appointed against a permanent post in the Department/Office during the period of his probation.

(ii) A candidate who has been continuously in a temporary service on a regular basis in the particular Department/Office for at least

3 years on the **1st August, 2011**.

Column 1	Column 2
Railway Department	I.R.S.E. I.R.S.M.E. I.R.S.E.E. I.R.S.S.E. I.R.S.S.
Central Public Works Department	C.E.S.—Group 'A'
Military Engineer Services	C.E. & M.E.S., Group 'A'
The Corps of Electronics and Mechanical Engg. Min. of Defence	Indian Defence Service of Engineers (IDSE) AEE, Gr. 'A' (Mech. Engg. Post) in the Corps of EME, Min. of Defence. AEE, Gr. 'A' (Electrical Engg. Post) in the Corps of EME, Min. of Defence. AEE, Gr. 'A' (Electronics & Telecommunication Engg. Post) in the Corps of EME, Min. of Defence. I.O.F.S. Group A
Directorate General Ordnance Factories	C.W.E. Service (Group A)
Central Water Commission	C.P.E. Service (Group 'A')
Central Electricity Authority	Engineer, Group 'A'
Wireless Planning and Coordination Wing/Monitoring Organisation	
Indian Navy	Indian Naval Armament Service, Assistant Naval Stores Officer, Grade-I Assistant Executive Engineer Gr. 'A' I.S.S. Gr. 'A', P&T Bldg Works, ITS Gr. 'A'; JTO Gr 'B'
Geological Survey of India	
Directorate General of Supply and Disposals	
Department of Telecom	

**NOTE**—The period of apprenticeship if followed by appointment against a working posts on the Railways may be treated as Railway Service for the purpose of age concession.

(c) The upper age limit prescribed above will be further relaxable—

- Upto a maximum of five years if a candidate belongs to a Scheduled Caste or a Scheduled Tribe;
- Upto a maximum of three years in the case of candidates belonging to Other Backward Classes who are eligible to avail of reservation applicable to such candidates.
- Upto a maximum of five years if a candidate had ordinarily been domiciled in the State of Jammu & Kashmir during the period from the 1st January, 1980 to the 31st December, 1989.
- Upto a maximum of three years in the case of Defence Service personnel disabled in operations during hostilities with any foreign country or in a disturbed area, and released as a consequence thereof;
- Upto a maximum of five years in the case of ex-servicemen including Commissioned Officers and ECOs/SSCOs who have rendered at least five years Military Service as on 1st August, 2011 and have been released (i) on completion of assignment (including those whose assignment is due to be completed within one year from 1st August, 2011) otherwise than by way of dismissal or discharge on account of misconduct or inefficiency, or (ii) on account of physical disability attributable to Military Service or (iii) on invalidment;
- Upto a maximum of five years in the

case of ECOs/SSCOs who have completed an initial period of assignment of five years of Military Services as on 1st August, 2011 and whose assignment has been extended beyond five years and in whose case the Ministry of Defence issues a certificate that they can apply for civil employment and they will be released on three months notice on selection from the date of receipt of offer of appointment;

(vii) Upto a maximum of 10 years in the case of blind, deaf-mute and orthopaedically handicapped persons.

**NOTE (I)**—Candidates belonging to the Scheduled Castes and the Scheduled Tribes and the Other Backward Classes who are also covered under any other clauses of Para 3 (II)(c) above, viz. those coming under the category of Ex-servicemen, persons domiciled in the State of J & K, blind, deaf-mute and orthopaedically handicapped etc. will be eligible for grant of cumulative age relaxation under both the categories.

**NOTE (II)**—The term ex-servicemen will apply to the persons who are defined as ex-servicemen in the ex-servicemen (Re-employment in Civil Services and Posts) Rules, 1979, as amended from time to time.

**NOTE (III)**—The age concession under Para 3(II) (c)(v) and (vi) will not be admissible to Ex-Servicemen and Commissioned Officers including ECOs/SSCOs, who are released on their own request.

**NOTE (IV)**—Notwithstanding, the provision of age relaxation under Para 3(II)(c)(vii) above, a physically handicapped candidate will be considered to be eligible for appointment only if he/she (after such physical examination as the Government or appointing authority, as the case may be, may prescribe) is found to satisfy the requirement of physical and medical standards for the concerned Services/Posts to be allocated to the physically handicapped candidates by the Government.

**N.B.**—The candidature of a person who is admitted to the examination under the age concession mentioned in Para 3(II)(b) above shall be cancelled if, after submitting his application he/she resigns from service or his services are terminated by his/her department/office either before or after taking the examination. He/she will, however, continue to be eligible if he/she is retrenched from the service or post after submitting his application. A candidate who after submitting his application to the department is transferred to other department/office will be eligible to compete under departmental age concession.

SAVE AS PROVIDED ABOVE THE AGE LIMITS PRESCRIBED CAN IN NO CASE BE RELAXED.

The date of birth accepted by the Commission is that entered in the Matriculation or Secondary School Leaving Certificate or in a certificate recognised by an Indian University as equivalent to matriculation or in an extract from a Register of matriculates maintained by a University, and that extract must be certified by the proper authority of the University or in the Higher Secondary or an equivalent examination certificate. These certificates are required to be submitted along with the Detailed Application Forms which will be required to be submitted by the candidates who qualify on the result of the written part of the examination.

No other document relating to age like horoscopes, affidavits, birth extracts from Municipal Corporation, service records and the like will be accepted.

The expression Matriculation/Secondary Examination Certificate in this part of the instruction includes the alternative certificates mentioned above.

**NOTE 1:-** CANDIDATES SHOULD NOTE THAT ONLY THE DATE OF BIRTH AS RECORDED IN THE MATRICULATION/SECONDARY EXAMINATION CERTIFICATE OR AN EQUIVALENT CERTIFICATE ON THE DATE OF

SUBMISSION OF APPLICATION WILL BE ACCEPTED BY THE COMMISSION AND NO SUBSEQUENT REQUEST FOR ITS CHANGE WILL BE CONSIDERED OR GRANTED.

**NOTE 2:-** CANDIDATES SHOULD ALSO NOTE THAT ONCE A DATE OF BIRTH HAS BEEN CLAIMED BY THEM AND ENTERED IN THE RECORDS OF THE COMMISSION FOR THE PURPOSE OF ADMISSION TO AN EXAMINATION, NO CHANGE WILL BE ALLOWED SUBSEQUENTLY (OR AT ANY OTHER EXAMINATION OF THE COMMISSION) ON ANY GROUNDS WHATSOEVER.

**NOTE 3:-** CANDIDATES SHOULD EXERCISE DUE CARE WHILE ENTERING THEIR DATE OF BIRTH IN THE RESPECTIVE COLUMN OF THE APPLICATION FORM. IF ON VERIFICATION AT ANY SUBSEQUENT STAGE, ANY VARIATION IS FOUND IN THEIR DATE OF BIRTH FROM THE ONE ENTERED IN THEIR MATRICULATION OR EQUIVALENT EXAMINATION CERTIFICATE, DISCIPLINARY ACTION WILL BE TAKEN AGAINST THEM BY THE COMMISSION UNDER THE RULES.

**(III) Minimum Educational Qualification:** For admission to the examination, a candidate must have—

- obtained a degree in Engineering from a University incorporated by an Act of the Central or State Legislature in India or other Educational Institutions established by an Act of Parliament or declared to be deemed as Universities under Section 3 of the University Grants Commission Act, 1956; or
- passed Sections A and B of the Institution Examinations of the Institution of Engineers (India); or
- obtained a degree/diploma in Engineering from such foreign University/College/Institution and under such conditions as may be recognised by the Government for the purpose from time to time, or
- passed Graduate Membership Examination of the Institute of Electronics and Telecommunication Engineers (India); or
- passed Associate Membership Examination Parts II and III/Sections A and B of the Aeronautical Society of India; or
- passed Graduate Membership Examination of the Institution of Electronics and Radio Engineers, London held after November, 1959.

Provided that a candidate for the post of Indian Naval Armament Service (Electronics Engineering Posts) and Engineer, Gr. 'A' in Wireless Planning & Coordination Wing/Monitoring Organisation may possess any of the above qualifications or the qualification mentioned below namely:-

M.Sc. degree or its equivalent with Wireless Communication, Electronics, Radio Physics or Radio Engineering as a special subject.

**NOTE-1**—A candidate who has appeared at an examination the passing of which would render him educationally qualified for this examination, but has not been informed of the result, may apply for admission to the examination. A candidate who intends to appear at such a qualifying examination may also apply. Such candidates will be admitted to the examination, if otherwise eligible, but their admission would be deemed to be provisional and subject to cancellation, if they do not produce proof of having passed the requisite qualifying examination along with the Detailed Application Form which will be required to be submitted by the candidates who qualify on the result of written part of the examination.

**NOTE-2**—In exceptional cases, the Commission may treat a candidate, who has not any of the qualifications prescribed in this rule, as educationally qualified provided that he/she has passed examinations conducted by other institutions the standard of which in the opinion of the Commission justifies his/her admission to the examination.

**NOTE-3**—A candidate who is otherwise qualified but who has taken a degree from

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a foreign University which is not recognised by Government, may also apply to the Commission and may be admitted to the examination at the discretion of the Commission.

#### (IV) Physical standards

Candidates must be physically fit according to physical standards for admission to Engineering Services Examination, 2011 as per guidelines given in Appendix-II of the Rules for the Engineering Services Examination, 2011 published in the Gazette of India Extraordinary dated 8th January, 2011.

#### 4. FEE:

(a) Candidates applying Online (excepting SC/ST/Female/PH candidates who are exempted from payment of fee) are required to pay a reduced fee of Rs. 50/- (Rupees Fifty only) either by remitting the money in any Branch of SBI by cash, or by using net banking facility of SBI or by using Visa/Master Credit/Debit card.

(b) Candidates residing in remote areas specified in para 6 of this notice who may apply offline also (through Common Application Form) are required to pay a fee of **Rs. 100.00 (Rupees One hundred only)** through a single Central Recruitment Fee Stamp of the requisite denomination. Central Recruitment Fee Stamp (**NOT postage stamps**) must be obtained from the post office and affixed on the Application Form in the space provided therein. The stamp may be got cancelled from the issuing Post Office with the date stamp of the post office in such a manner that the impression of the cancellation mark partially overflows on the Application Form itself but within the space provided on the form. The impression of the cancellation mark should be clear and distinct to facilitate the identification of date and the Post Office of issue.

ALL FEMALE CANDIDATES AND CANDIDATES BELONGING TO SCHEDULED CASTES/SCHEDULED TRIBES/PHYSICALLY HANDICAPPED CATEGORIES ARE EXEMPTED FROM PAYMENT OF FEE. NO FEE EXEMPTION IS, HOWEVER, AVAILABLE TO OBC CANDIDATES AND THEY ARE REQUIRED TO PAY THE PRESCRIBED FEE IN FULL.

Physically handicapped persons are exempted from the payment of fee provided they are otherwise eligible for appointment to the Services/Posts to be filled on the results of this examination on the basis of the standards of medical fitness for these Services/Posts (including any concessions specifically extended to the physically handicapped). A physically handicapped candidate claiming age relaxation/fee concession will be required by the Commission to submit along with their Detailed Application Form, a certified copy of the certificate from a Government hospital/Medical Board in support of his claim for being physically handicapped.

**NOTE:** Notwithstanding the aforesaid provision for age relaxation/fee exemption, a physically handicapped candidate will be considered to be eligible for appointment only if he/she (after such physical examination as the Government or the appointing authority, as the case may be, may prescribe) is found to satisfy the requirements of physical and medical standards for the concerned Services/Posts to be allocated to Physically Handicapped candidates by the Government.

**'Postage Stamp' will in no case be accepted in lieu of Central Recruitment Fee Stamp.**

**CANDIDATES SHOULD NOTE THAT THE FEE SENT THROUGH BANK DRAFT, INDIAN POSTAL ORDERS, MONEY ORDER, CROSSED CHEQUE, CURRENCY NOTES OR TREASURY CHALLAN ETC. WILL NOT BE ACCEPTED BY THE COMMISSION AND SUCH APPLICATIONS WILL BE TREATED AS WITHOUT FEE AND WILL BE SUMMARILY REJECTED.**

**NOTE (i) :** Applications not accompanied by the prescribed fee (unless remission of fee is claimed) shall be summarily rejected.

**NOTE (ii):** Fee once paid shall not be refunded under any circumstances nor can the fee be held in reserve for any other examination or selection.

**NOTE (iii):-** If any candidate who took the Engineering Services Examination held in 2010 wishes to apply for admission to this examination, he/she must submit his/her application so as to reach the Commission's Office by the prescribed date without waiting for the results or an offer of appointment.

#### 5. HOW TO APPLY:

(a) candidates are required to apply Online using the link <http://www.upsonline.nic.in>. Detailed instructions for filling up online applications are available on the above mentioned website.

(b) Candidates residing in certain remote areas specified in Para 6 of this Notice, can exercise the option of applying through offline mode also by using the Common Application form being used for examinations conducted by the Commission. This form along with an Information Brochure containing general instructions for filling up the Form, an acknowledgement card and an envelope for sending the application is **obtainable from the designated Head Post Offices/Post Offices** throughout the country as listed in Appendix-III of Notice against cash payment of **Rs. 20/- (Rupees twenty only)**. Form should be purchased from the designated Post Offices only and not from any other agency. This **form can be used only once and for only one examination**. Candidates who wish to apply offline must use the form supplied with the Information Brochure only and they should in no case use photocopy/reproduction/unauthorised printed copy of the Form. Since this form is electronically scannable, due care should be taken to fill up the Application Form correctly. While filling up the Application Form, **please refer to detailed instructions given in Appendix-II(B) of this Notice**. The candidate should also fill up in the relevant places of the **Acknowledgement Card**, their Application Form Number (8-digit) and the name of the Examination. The applicants are required to affix the postage stamp of Rs. 6/- on the Acknowledgement Cards and send the same along with application from to UPSC. If an applicant fails to affix the postage stamp of requisite amount his/her acknowledgement card will not be despatched and Commission will not be responsible for non-receipt of acknowledgement card by the applicant. The duly filled in Application Form and the acknowledgement card should then be **mailed in the special envelope** supplied with the Information Brochure. The candidates should also write the name of Examination viz. **"Engineering Services Examination, 2011"** on the envelope before despatching it to "Controller of Examination, Union Public Service Commission, Dholpur House, Shahjahan Road New Delhi-110069". Candidates should note that all offline applications from remote areas only will be received by Post/Speed Post only and no application will be received by Hand or by Courier.

(c) All candidates, whether already in Government Service, or in Government owned industrial undertakings or other similar organisations or in private employment, should submit their applications direct to the Commission.

Persons, already in Government service whether in a permanent or temporary capacity or as work-charged employees other than casual or daily rated employees or those serving under public enterprises are, however, required to inform their Head of Office/Department that they have applied for the Examination. Candidates should note that in case communication is received from their employer by the Commission **withholding** permission to the candidates applying for/appearing at the Examination, their application will be liable to be rejected/candidature will be liable to be cancelled.

**NOTE 1: WHILE FILLING IN HIS/HER APPLICATION FORM, THE CANDIDATE SHOULD CAREFULLY DECIDE ABOUT HIS/HER CHOICE FOR THE CENTRE AND ENGINEERING DISCIPLINE FOR THE EXAMINATION. MORE THAN ONE**

**APPLICATION FROM A CANDIDATE GIVING DIFFERENT CENTRES AND/OR ENGINEERING DISCIPLINE WILL NOT BE ACCEPTED IN ANY CASE. EVEN IF A CANDIDATE SENDS MORE THAN ONE COMPLETED APPLICATIONS, THE COMMISSION WILL ACCEPT ONLY ONE APPLICATION AT THEIR DISCRETION AND THE COMMISSION'S DECISION IN THE MATTER SHALL BE FINAL.**

**IF ANY CANDIDATE APPEARS AT A CENTRE/ENGINEERING DISCIPLINE OTHER THAN THE ONE INDICATED BY THE COMMISSION IN HIS/HER ADMISSION CERTIFICATE, THE PAPERS OF SUCH A CANDIDATE WILL NOT BE VALUED AND HIS/HER CANDIDATURE WILL BE LIABLE TO CANCELLATION.**

**NOTE 2. SINCE THESE APPLICATION FORMS ARE TO BE PROCESSED IN A COMPUTERISED SYSTEM, DUE CARE SHOULD BE TAKEN BY THE CANDIDATES TO FILL UP THEIR APPLICATION FORMS CORRECTLY. NECESSARY INSTRUCTIONS FOR FILLING UP THE FORM MAY BE SEEN AT APPENDIX II. NO COLUMN OF THE APPLICATION SHOULD BE LEFT BLANK. INCOMPLETE OR DEFECTIVE APPLICATIONS SHALL BE SUMMARILY REJECTED. NO REPRESENTATION OR CORRESPONDENCE REGARDING SUCH REJECTION SHALL BE ENTERTAINED UNDER ANY CIRCUMSTANCES.**

**CANDIDATES ARE NOT REQUIRED TO SUBMIT ALONG WITH THEIR APPLICATIONS ANY CERTIFICATE IN SUPPORT OF THEIR CLAIMS REGARDING AGE, EDUCATIONAL QUALIFICATIONS, SCHEDULED CASTES/SCHEDULED TRIBES/OTHER BACKWARD CLASSES AND PHYSICALLY HANDICAPPED ETC.**

The candidates applying for the Examination should ensure that they fulfil all the eligibility conditions for admission to the Examination. Their admission at all the stages of examination for which they are admitted by the Commission viz. Written Examination and Interview Test will be purely provisional, subject to their satisfying the prescribed eligibility conditions. If on verification at any time before or after the Written examination or Interview Test, it is found that they do not fulfil any of the eligibility conditions, their candidature of the Examination will be cancelled by the Commission.

Candidates are requested to keep ready the attested copies of the following documents for submission to the Commission soon after the declaration of the results of the written Examination which is likely to be declared in the month of December, 2011.

1. Certificate of Age.
2. Certificate of Educational Qualification.
3. Certificate in support of claim to belong to Scheduled Castes, Scheduled Tribes and Other Backward Classes, wherever applicable.
4. Certificate in support of claim for age/fee concession, wherever applicable.

Immediately after the declaration of the written results successful candidates will be sent a Form by the Commission requiring additional information to be furnished. Attested copies of the above mentioned certificates will have to be sent to the Commission at that time. The originals will have to be produced at the time of interview. If any of their claims is found to be incorrect, they may render themselves liable to disciplinary action by the Commission in terms of Rule 11 of the Rules for **Engineering Services Examination, 2011 notified in the Gazette of India Extraordinary dated 8th January, 2011 and also reproduce below:-**

A candidate who is or has been declared by the Commission to be guilty of:

- (i) obtaining support for his candidature by any means; or
- (ii) impersonating; or
- (iii) procuring impersonation by any person; or
- (iv) submitting fabricated documents or documents which have been tampered with; or

- (v) making statements which are incorrect or false or suppressing material information; or
- (vi) resorting to any other irregular or improper means in connection with his candidature for the examination; or
- (vii) using unfair means during the examination; or
- (viii) writing irrelevant matter including obscene language or pornographic matter in the script(s); or
- (ix) misbehaving in any other manner in the examination hall; or
- (x) harassing or doing bodily harm to the staff employed by the Commission for the conduct of their examinations; or
- (xi) being in possession of or using any cellular/mobile phone/pager or any other electronic equipment or device or any other equipment capable of being used as a communication device during the examination; or
- (xii) violating any of the instructions issued to candidates along with their admission certificate permitting them to take the examination; or
- (xiii) attempting to commit or as the case may be abetting the commission of all or any of the acts specified in the foregoing clauses, may in addition to rendering himself liable to criminal prosecution, be liable—
  - (a) to be disqualified by the Commission from the examination for which he/she is a candidate; and/or
  - (b) to be debarred either permanently or for a specified period—
    - (i) by the Commission from any examination or selection held by them;
    - (ii) by the Central Government from any employment under them; and
    - (c) if he/she is already in service under Government to disciplinary action under the appropriate rules.

Provided that no penalty under this rule shall be imposed except after—

- (i) giving the candidate an opportunity of making such representation in writing as he/she may wish to make on that behalf, and
- (ii) taking the representation if any submitted by the candidate, within the period allowed to him/her into consideration.

#### 6. LAST DATE FOR RECEIPT OF APPLICATIONS:

(a) **Online :** The Online Applications can be filled upto 7th February, 2011 till 11.59 PM after which the link will be disabled.

(b) **Offline :** However the candidates residing in Assam, Meghalaya, Arunachal Pradesh, Mizoram, Manipur, Nagaland, Tripura, Sikkim, Jammu & Kashmir, Lahaul and Spiti District and Pangi sub-division of Chamba District of Himachal Pradesh, Andaman and Nicobar Islands or Lashadweep have the option to apply offline also. For these candidates if applying offline, the last date of receipt of offline applications is **14th February, 2011**. All candidates applying offline should note that the offline applications will be accepted only by post/speed post, booked from the post offices located in the specified remote areas

**NOTE (I):** Candidates should clearly note that the Commission will in no case be responsible for non-receipt of their application or any delay in receipt thereof on any account whatsoever. No application received after the prescribed last date will be entertained under any circumstances and all the late applications will be summarily rejected. They should, therefore, ensure that their applications reach the Commission's Office on or before the prescribed last date.

#### 7. ACKNOWLEDGEMENT OF OFFLINE APPLICATIONS.

Immediately on receipt of an offline application from a candidate belonging to specified remote areas, the Acknowledgement Card submitted by him/her along with the Application Form will be despatched to him/her by the Commission's office duly stamped in token of receipt of his/her Application. If such a candidate

*Continued*

does not receive the Acknowledgement Card **within 45 days**, he/she should at once contact the Commission by quoting his/her Application Form No. (8-digit) and name & year of examination. The mere fact that a candidate's application has been acknowledged by the Commission does not mean that his/her candidature for the examination has been accepted by the Commission. Candidates will be informed at the earliest possible about their admission to the examination or rejection of their application.

#### 8. CORRESPONDENCE WITH COMMISSION :

The Commission will not enter into any correspondence with the candidates about their candidature except in the following cases :

- (i) Every candidate for this examination will be informed at the earliest possible date the status of his/her application. Admission certificates, indicating the Roll Nos. will be issued to the candidates who are admitted to the examination. The admission certificate will bear the photograph of the candidate. If a candidate does not receive his/her admission certificate or any other communication regarding his/her candidature for the examination **one month** before the commencement of the examination, he/she should at once contact the Commission. On receipt of such a communication, Admission Certificate or a duplicate copy thereto will be issued to the admitted candidate. Information in this regard can also be obtained from the Facilitation Counter located in the Commission's Office either in person or over phone Nos. 011-23381125/011-23385271/011-23098543. **In case no communication is received in the Commission's Office from the candidate regarding non-receipt of his/her Admission Certificate at least 3 weeks before the examination, he/she himself/herself will be solely responsible for non-receipt of his/her admission certificate.** It may be noted that the Admission Certificate will be issued at the address as photocopied from the Application Form filled in by the candidate. The candidate should, therefore, ensure that the address given by him/her in the Application Form is correct and complete with pin code.

No candidate will ordinarily be allowed to take the examination unless he/she holds a certificate of admission for the examination. On receipt of Admission Certificate, check it carefully and bring discrepancies/errors, if any, to the notice of UPSC immediately.

The candidates should note that their admission to the examination will be purely provisional based on the information given by them in the Application Form. This will be subject to verification of all the eligibility conditions by the UPSC.

- (ii) The mere fact that a certificate of admission to the Examination has been issued to a candidate will not imply that his/her candidature has been finally cleared by the Commission, or that the entries made by the candidate in his/her application for the Examination have been accepted by the Commission as true and correct. Candidates may note that the Commission takes up the verification of eligibility conditions of a candidate, with reference to original documents, only after the candidate has qualified for Interview or Personality Test on the result of the written part of the examination. Unless candidature is formally confirmed by the Commission, it continues to be provisional.

The decision of the Commission as to

the acceptance of the application of a candidate and his/her eligibility or otherwise for admission to the Examination shall be final. Candidates should note that the name in the Admission Certificate, in some cases may be abbreviated due to technical reasons.

- (iii) In the event of a candidate receiving more than one Admission Certificate from the Commission, he/she should use only one of these admission certificates for appearing in the examination and return the other(s) to the Commission's Office.
- (iv) A candidate must see that communication sent to him/her at the address stated in his/her application are re-directed, if necessary change in address should be communicated to the Commission at the earliest opportunity. Although the Commission make every effort to take account of such changes, they cannot accept any responsibility in the matter.
- (v) If a candidate receives an admission certificate in respect of some other candidate on account of handling error, the same should be immediately returned to the Commission with a request to issue the correct Admission Certificate. Candidates may note that they will not be allowed to take the examination on the strength of an Admission Certificate issued in respect of another candidate.

**IMPORTANT: ALL COMMUNICATIONS TO THE COMMISSION SHOULD INVARIABLY CONTAIN THE FOLLOWING PARTICULARS:**

1. NAME AND YEAR OF THE EXAMINATION.
2. APPLICATION FORM NO. (8 digits).
3. ROLL NO. (IF RECEIVED).
4. NAME OF CANDIDATE IN FULL AND IN BLOCK LETTERS.
5. COMPLETE POSTAL ADDRESS AS GIVEN IN THE APPLICATION.

**N.B. (i) COMMUNICATIONS NOT CONTAINING THE ABOVE PARTICULARS MAY NOT BE ATTENDED TO.**

**N.B. (ii) IF A LETTER/COMMUNICATION IS RECEIVED FROM A CANDIDATE AFTER AN EXAMINATION HAS BEEN HELD AND IT DOES NOT GIVE HIS/HER FULL NAME AND ROLL NUMBER, IT WILL BE IGNORED AND NO ACTION WILL BE TAKEN THEREON.**

9. For being considered against the vacancies reserved for them, the physically disabled persons should have disability of Forty per cent (40%) or more. However, such candidates shall be required to meet one or more of the following physical requirements/abilities which may be necessary for performing the duties in the concerned Services/Posts :-

Code	Physical Requirements
F	1. Work performed by manipulating (with Fingers)
PP	2. Work performed by pulling & pushing
L	3. Work performed by lifting
KC	4. Worked performed by kneeling and crouching
B	5. Work performed by bending
S	6. Work performed by sitting (on bench or chair)
ST	7. Work performed by standing
W	8. Work performed by walking
SE	9. Work performed by seeing
H	10. Work performed by hearing/speaking
RW	11. Work performed by reading and writing.

The functional classification in their case shall be, one or more of the following, consistent with the requirements of the concerned Services/Posts :

#### Functional Classification

Code	Functions
BL	1. both legs affected but not arms.
BA	2. Both arms affected - a. impaired reach b. weakness

BLA	3. both legs and both arms affected.		of grip.
OL	4. one leg affected (R or L)		a. impaired reach b. weakness of grip c. ataxic
OA	5. one arm affected (R or L)		a. impaired reach b. weakness of grip. c. ataxic
BH	6. stiff back and hips (cannot sit or stood)		
MW	7. Muscular weakness and limited physical endurance		
B	8. the blind		
PB	9. Partially blind		
D	10. the deaf		
PD	11. Partially deaf		

**10. WITHDRAWAL OF APPLICATIONS:**  
NO REQUEST FOR WITHDRAWAL OF CANDIDATURE RECEIVED FROM A CANDIDATE AFTER HE/SHE HAS SUBMITTED HIS/HER APPLICATION WILL BE ENTERTAINED UNDER ANY CIRCUMSTANCES.

(V.P. SINGH)

JOINT SECRETARY

UNION PUBLIC SERVICE COMMISSION

#### APPENDIX-I

##### PLAN OF EXAMINATION

1. The Examination shall be conducted according to the following plan:-

**Part I**—The written Examination will comprise two sections—Section I consisting only of objective types of questions and Section II of conventional papers. Both Sections will cover the entire syllabus of the relevant engineering disciplines viz. Civil Engineering, Mechanical Engineering, Electrical Engineering and Electronics & Telecommunication Engineering. The standard and syllabi prescribed for these papers are given in Schedule to the Appendix. The details of the written Examination i.e. subject, duration and maximum marks allotted to each subject are given in para 2 below.

**Part II**—Personality test carrying a maximum of 200 marks of such of the candidates who qualify on the basis of the written examination.

2. The following will be the subjects for the written examination:-

##### CATEGORY I CIVIL ENGINEERING

Subject	Duration	Maximum Marks
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#### Section I- Objective Papers

General Ability Test (Part A: General English) (Part B: General Studies)	2 hrs.	200
Civil Engineering - Paper I	2 hrs.	200
Civil Engineering - Paper II	2 hrs.	200

#### Section II- Conventional Papers

Civil Engineering - Paper I	3 hrs.	200
Civil Engineering - Paper II	3 hrs.	200

TOTAL 1000

##### CATEGORY II MECHANICAL ENGINEERING

Subject	Duration	Maximum Marks
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#### Section I- Objective Papers

General Ability Test (Part A: General English)	2 hrs.	200
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(Part B: General Studies)		
Mechanical Engineering - Paper I	2 hrs.	200
Mechanical Engineering - Paper II	2 hrs.	200
<b>Section II- Conventional Papers</b>		
Mechanical Engineering - Paper I	3 hrs.	200
Mechanical Engineering - Paper II	3 hrs.	200

TOTAL 1000

##### CATEGORY III ELECTRICAL ENGINEERING

Subject	Duration	Maximum Marks
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#### Section I- Objective Papers

General Ability Test (Part A: General English) (Part B: General Studies)	2 hrs.	200
Electrical Engineering Paper I	2 hrs.	200
Electrical Engineering - Paper II	2 hrs.	200

#### Section II- Conventional Papers

Electrical Engineering - Paper I	3 hrs.	200
Electrical Engineering - Paper II	3 hrs.	200

TOTAL 1000

##### CATEGORY IV ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Subject	Duration	Maximum Marks
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#### Section I- Objective Papers

General Ability Test (Part A: General English) (Part B: General Studies)	2 hrs.	200
Electronics & Telecommunication Engineering - Paper I	2 hrs.	200
Electronics & Telecommunication Engineering - Paper II	2 hrs.	200

#### Section II- Conventional Papers

Electronics & Telecommunication Engineering - Paper I	3 hrs.	200
Electronics & Telecommunication Engineering - Paper II	3 hrs.	200

TOTAL 1000

**NOTE :** Candidates are advised to read carefully special instructions to candidates for conventional type tests and objective type tests given in Appendix-IV (Part A & Part B) including the procedure regarding filling in the Answer Sheet of objective type tests in the Examination Hall.

3. In the Personality Test special attention will be paid to assessing the candidate's capacity for leadership, initiative and intellectual curiosity, tact and other social qualities, mental and physical energy, powers of practical application and integrity of character.

4. Conventional papers must be answered in English. Question papers will be set in English only.

5. Candidates must write the papers in their own hand. In no circumstances will they be allowed the help of a scribe to write the answers for them.

6. The Commission have discretion to fix minimum qualifying marks in any or all the papers of the examination. The Objective

Continued

Type papers as contained in Section-I of the Plan of the Examination will be evaluated first and evaluation of the Conventional Type Papers contained in Section-II of the Plan of Examination will be done only of those candidates who obtain the minimum qualifying marks in Objective Types Papers, as fixed by the Commission.

7. Marks will not be allotted for mere superficial knowledge.

8. Deduction upto 5 per cent of the maximum marks for the written papers will be made for illegible handwriting.

9. Credit will be given for orderly, effective and exact expression combined with due economy of words in the conventional papers of the Examination.

10. In the question papers, wherever required, SI units will be used.

**NOTE:** Candidates will be supplied with standard tables/charts in SI units in the Examination hall for reference purpose, wherever considered necessary.

11. Candidates are permitted to bring and use battery operated pocket calculators for conventional (essay) type papers only. Loaning or inter-changing of calculators in the Examination hall is not permitted.

It is also important to note that candidates are not permitted to use calculators for answering Objective Type Paper (Test book lets). They should not, therefore, bring the same inside the Examination Hall.

12. Candidates should use only International form of Indian numerals (e.g. 1,2,3,4,5,6 etc.) while answering question papers.

#### SCHEDULE TO APPENDIX-I

##### Standard and Syllabi

The standard of paper in General Ability Test will be such as may be expected of an Engineering/Science Graduate. The standard of papers in other subjects will approximately be that of an Engineering Degree Examination of an Indian University. There will be no practical examination in any of the subjects.

#### GENERAL ABILITY TEST

**Part A: General English.** The question paper in General English will be designed to test the candidate's understanding of English and workmanlike use of words.

**Part B: General Studies:** The paper in General Studies will include knowledge of current events and of such matters as of everyday observation and experience in their scientific aspects as may be expected of an educated person. The paper will also include questions on History of India and Geography of a nature which candidates should be able to answer without special study.

#### CIVIL ENGINEERING

(For both objective and conventional type papers)

##### PAPER-I

#### 1. BUILDING MATERIALS

**Timber :** Different types and species of structural timber, density-moisture relationship, strength in different directions, defects, influence of defects on permissible stress, preservation, dry and wet rots, codal provisions for design, plywood.

**Bricks :** Types, Indian Standard classification, absorption, saturation factor, strength in masonry, influence of mortar strength on masonry strength.

**Cement :** Compounds of, different types, setting times, strength.

**Cement Mortar :** Ingredients, proportions, water demand, mortars for plastering and masonry.

**Concrete :** Importance of W/C Ratio, Strength, ingredients including admixtures, worksability, testing for strength, elasticity, non-destructive

testing, mix design methods.

#### 2. SOLID MECHANICS

Elastic constants, stress, plane stress, Mohr's circle of stress, strains, plane strain, Mohr's circle of strain, combined stress; Elastic theories of failure; Simple bending, shear; Torsion of circular and rectangular sections and simple members.

#### 3. STRUCTURAL ANALYSIS

Analysis of determinate structures - different methods including graphical methods.

Analysis of indeterminate skeletal frames - moment distribution, slope-deflection, stiffness and force methods, energy methods, Muller-Breslau principle and application.

Plastic analysis of indeterminate beams and simple frames - shape factors.

#### 4. DESIGN OF STEEL STRUCTURES

Principles of working stress method. Design of connections, simple members, Built-up sections and frames, Design of Industrial roofs. Principles of ultimate load design. Design of simple members and frames.

#### 5. DESIGN OF CONCRETE AND MASONRY STRUCTURES

Limit state design for bending, shear, axial compression and combined forces. Codal provisions for slabs, beams, walls and footings. Working stress method of design of R.C. members.

Principles of prestressed concrete design, materials, methods of prestressing, losses. Design of simple members and determinate structures. Introductions to prestressing of indeterminate structures.

Design of brick masonry as per I.S. Codes.

#### 6. CONSTRUCTION PRACTICE, PLANNING AND MANAGEMENT

Concreting Equipment:

Weight Batcher, Mixer, vibrator, batching plant, concrete pump.

Cranes, hoists, lifting equipment.

Earthwork Equipment :

Power shovel, hoe, dozer, dumper, trailers and tractor, rollers, sheep foot rollers, pumps.

Construction, Planning and Management :

Bar chart, linked bar chart, work-break down structures, Activity - on - arrow diagrams. Critical path, probabilistic activity durations; Event-based networks.

PERT network: Time-cost study, crashing; Resource allocation.

##### PAPER-II

#### 1. (a) FLUID MECHANICS, OPEN CHANNEL FLOW, PIPE FLOW

Fluid Properties, Pressure, Thrust, Buoyancy; Flow Kinematics; Integration of flow equations; Flow measurement; Relative motion; Moment of momentum; Viscosity, Boundary layer and Control, Drag, Lift; dimensional Analysis, Modelling; Cavitation; Flow oscillations; Momentum and Energy principles in Open channel flow, Flow controls, Hydraulic jump, Flow sections and properties; Normal flow, Gradually varied flow; Surges; Flow development and losses in pipe flows, Measurements; Siphons; Surges and Water hammer; Delivery of Power Pipe networks.

#### (b) HYDRAULIC MACHINES AND HYDROPOWER

Centrifugal pumps, types, performance parameters, scaling, pumps in parallel; Reciprocating pumps, air vessels, performance parameters; Hydraulic ram; Hydraulic turbines, types, performance

parameters, controls, choice; Power house, classification and layout, storage, pondage, control of supply.

#### 2. (a) HYDROLOGY

Hydrological cycle, precipitation and related data analyses, PMP, unit and synthetic hydrographs; Evaporation and transpiration; Floods and their management, PMF; Streams and their gauging; River morphology; Routing of floods; Capacity of Reservoirs.

#### (b) WATER RESOURCES ENGINEERING

Water resources of the globe: Multipurpose uses of Water: Soil-Plant-Water relationships, irrigation systems, water demand assessment; Storages and their yields, ground water yield and well hydraulics; Waterlogging, drainage design; Irrigation revenue; Design of rigid boundary canals, Lacey's and Tractive force concepts in canal design, lining of canals; Sediment transport in canals; Non-Overflow and overflow sections of gravity dams and their design, Energy dissipators and tailwater rating; Design of headworks, distribution works, falls, cross-drainage works, outlets; River training.

#### 3. ENVIRONMENTAL ENGINEERING

##### (a) WATER SUPPLY ENGINEERING

Sources of supply, yields, design of intakes and conductors; Estimation of demand; Water quality standards; Control of Water-borne diseases; Primary and secondary treatment, detailing and maintenance of treatment units; Conveyance of treatment units; Conveyance and distribution systems of treated water, leakages and control; Rural water supply; Institutional and industrial water supply.

##### (b) WASTE WATER ENGINEERING:

Urban rain water disposal; Systems of sewage collection and disposal; Design of sewers and sewerage systems; pumping; Characteristics of sewage and its treatment, Disposal of products of sewage treatment, streamflow rejuvenation Institutional and industrial sewage management; Plumbing Systems; Rural and semi-urban sanitation.

##### (c) SOLID WASTE MANAGEMENT

Source, classification collection and disposal; Design and Management of landfills.

##### (d) AIR AND NOISE POLLUTION AND ECOLOGY

Sources and effects of air pollution, monitoring of air pollution; Noise pollution standards; Ecological chain and balance, Environmental assessment.

#### 4. (a) SOIL MECHANICS

Properties of soil, classification and interrelationship; Compaction behaviour, methods of compaction and their choice; Permeability and seepage, flow nets, Inverted filters; Compressibility and consolidation; Shearing resistance, stresses and failure; soil testing in laboratory and in-situ; Stress path and applications; Earth pressure theories, stress distribution in soil; soil exploration, samplers, load tests, penetration tests.

##### (b) FOUNDATION ENGINEERING

Types of foundations, Selection criteria, bearing capacity, settlement, laboratory and field tests; Types of piles and their design and layout, Foundations on expansive soils, swelling and its prevention, foundation on swelling soils.

#### 5. (a) SURVEYING

Classification of surveys, scales, accuracy; Measurement of distances - direct and indirect methods; optical and electronic devices; Measurement of directions, prismatic compass, local

attraction; Theodolites - types; Measurement of elevations - Spirit and trigonometric levelling; Relief representation; Contours; Digital elevation modelling concept; Establishment of control by triangulations and traversing - measurements and adjustment of observations, computation of coordinates; Field astronomy, Concept of global positioning system; Map preparation by plane tabling and by photogrammetry; Remote sensing concepts, map substitutes.

#### (b) TRANSPORTATION ENGINEERING

Planning of highway systems, alignment and geometric design, horizontal and vertical curves, grade separation; Materials and construction methods for different surfaces and maintenance: Principles of pavement design; Drainage.

Traffic surveys, Intersections, signalling; Mass transit systems, accessibility, networking.

Tunnelling, alignment, methods of construction, disposal of muck, drainage, lighting and ventilation, traffic control, emergency management.

Planning of railway systems, terminology and designs, relating to gauge, track, controls, transits, rolling stock, tractive power and track modernisation; Maintenance; Appurtenant works; Containerisation.

Harbours - layouts, shipping lanes, anchoring, location identification; Littoral transport with erosion and deposition; sounding methods; Dry and Wet docks, components and operational Tidal data and analyses.

Airports - layout and orientation; Runway and taxiway design and drainage management; Zoning laws; Visual aids and air traffic control; Helipads, hangars, service equipment.

#### MECHANICAL ENGINEERING

(For both objective and conventional type papers)

##### PAPER-I

#### 1. Thermodynamics, Cycles and IC Engines:

Basic concepts, Open and Closed systems. Heat and work. Zeroth, First and Second Law, Application to non-Flow and Flow processes. Entropy, Availability, Irreversibility and Tds relations. Claperyron and real gas equations, Properties of ideal gases and vapours. Standard vapour, Gas power and Refrigeration cycles. Two stage compressor. C-I and S.I. Engines. Pre-ignition, Detonation and Diesel-knock, Fuel injection and Carburation, Supercharging. Turbo-prop and Rocket engines, Engine Cooling, Emission & Control, Flue gas analysis, Measurement of Calorific values. Conventional and Nuclear fuels, Elements of Nuclear power production.

#### 2. Heat Transfer and Refrigeration and Airconditioning:

Modes of heat transfer. One dimensional steady and unsteady conduction. Composite slab and Equivalent Resistance. Heat dissipation from extended surfaces, Heat exchangers, Overall heat transfer coefficient, Empirical correlations for heat transfer in laminar and turbulent flows and for free and forced Convection, Thermal boundary layer over a flat plate. Fundamentals of diffusive and connective mass transfer, Black body and basic concepts in Radiation, Enclosure theory, Shape factor, Net work analysis. Heat pump and Refrigeration cycles and systems, Refrigerants. Condensers, Evaporates and Expansion devices, Psychrometry, Charts and application to air conditioning, Sensible heating and cooling, Effective temperature, comfort indices, Load calcula-

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tions, Solar refrigerations, controls, Duct design.

### 3. Fluid Mechanics.

Properties and classification of fluids, Manometry, forces on immersed surfaces, Center of pressure, Buoyancy, Elements of stability of floating bodies. Kinematics and Dynamics.

Irrrotational and incompressible. Inviscid flow. Velocity potential, Pressure field and Forces on immersed bodies. Bernoulli's equation, Fully developed flow through pipes, Pressure drop calculations, Measurement of flow rate and Pressure drop. Elements of boundary layer theory, Integral approach, Laminar and turbulent flows, Separations. Flow over weirs and notches. Open channel flow, Hydraulic jump. Dimensionless numbers, Dimensional analysis, Similitude and modelling. One-dimensional isentropic flow, Normal shock wave, Flow through convergent - divergent ducts, Oblique shock wave, Rayleigh and Fanno lines.

### 4. Fluid Machinery and Steam Generators.

Performance, Operation and control of hydraulic Pump and impulse reaction Turbines, Specific speed, Classification. Energy transfer, Coupling, Power transmission, Steam generators Fire-tube and water-tube boilers. Flow of steam through Nozzles and Diffusers, Wetness and condensation. Various types of steam and gas Turbines, Velocity diagrams. Partial admission. Reciprocating, Centrifugal and axial flow Compressors, Multistage compression, role of Mach Number, Reheat, Regeneration, Efficiency, Governance.

#### PAPER - II

### 5. THEORY OF MACHINES

Kinematic and dynamic analysis of planer mechanisms. Cams. Gears and gear trains. Flywheels. Governors. Balancing of rigid rotors and field balancing. Balancing of single and multicylinder engines, Linear vibration analysis of mechanical systems. Critical speeds and whirling of shafts Automatic controls.

### 6. MACHINE DESIGN

Design of Joints : cotters, keys, splines, welded joints, threaded fasteners, joints formed by interference fits. Design of friction drives : couplings and clutches, belt and chain drives, power screws.

Design of Power transmission systems : gears and gear drives shaft and axle, wire ropes.

Design of bearings : hydrodynamics bearings and rolling element bearings.

### 7. STRENGTH OF MATERIALS

Stress and strain in two dimensions, Principal stresses and strains, Mohr's construction, linear elastic materials, isotropy and anisotropy, stress-strain relations, uniaxial loading, thermal stresses. Beams : Bending moment and shear force diagram, bending stresses and deflection of beams. Shear stress distribution. Torsion of shafts, helical springs. Combined stresses, thick-and thin-walled pressure vessels. Struts and columns. Strain energy concepts and theories of failure.

### 8. ENGINEERING MATERIALS

Basic concepts on structure of solids. Crystalline materials. Defects in crystalline materials. Alloys and binary phase diagrams. Structure and properties of common engineering materials. Heat treatment of steels. Plastics, Ceramics and composite materials. Common applications of various materials.

### 9. PRODUCTION ENGINEERING

**Metal Forming** : Basic Principles of forging, drawing and extrusion; High energy rate forming; Powder metallurgy. **Metal Casting** : Die casting, investment casting, Shell Moulding, Centrifugal Casting, Gating & Riser design; melting furnaces.

**Fabrication Processes** : Principles of Gas, Arc, Shielded arc Welding; Advanced Welding Processes, Weldability: Metallurgy of Welding.

**Metal Cutting** : Turning, Methods of Screw Production, Drilling, Boring, Milling, Gear Manufacturing, Production of flat surfaces, Grinding & Finishing Processes. Computer Controlled Manufacturing Systems-CNC, DNC, FMS, Automation and Robotics.

Cutting Tools Materials, Tool Geometry, Mechanism of Tool Wear, Tool Life & Machinability; Measurement of cutting forces. Economics of Machining. Unconventional Machining Processes. Jigs and Fixtures. Fits and tolerances, Measurement of surface texture, Comparators Alignment tests and reconditioning of Machine Tools.

**10. INDUSTRIAL ENGINEERING**  
Production Planning and Control : Forecasting - Moving average, exponential smoothing, Operations, scheduling; assembly line balancing, Product development, Break-even analysis, Capacity planning, PERT and CPM.

Control Operations : Inventory control ABC analysis, EOQ model, Materials requirement planning. Job design, Job standards, Work measurement, Quality Management - Quality analysis and control. Operations Research : Linear Programming - Graphical and Simplex methods, Transportation and assignment models. Single server queueing model.

Value Engineering : Value analysis for cost/value.

### 11. ELEMENTS OF COMPUTATION

Computer Organisation, Flow charting, Features of Common computer Languages - FORTRAN, d Base III, Lotus 1-2-3, C and elementary Programming.

### ELECTRICAL ENGINEERING

(For both objective and conventional types papers)

#### PAPER - I

#### 1. EM Theory

Electric and magnetic fields. Gauss's Law and Amperes Law. Fields in dielectrics, conductors and magnetic materials. Maxwell's equations. Time varying fields. Plane-Wave propagating in dielectric and conducting media. Transmission lines.

#### 2. Electrical Materials

Band Theory, Conductors, Semiconductors and Insulators. Superconductivity. Insulators for electrical and electronic applications. Magnetic materials. Ferro and ferri magnetism. Ceramics, Properties and applications. Hall effect and its applications. Special semi conductors.

#### 3. Electrical Circuits

Circuits elements. Kirchoff's Laws. Mesh and nodal analysis. Network Theorems and applications. Natural response and forced response. Transient response and steady state response for arbitrary inputs. Properties of networks in terms of poles and zeros. Transfer function. Resonant circuits. Three-phase circuits. Two-port networks. Elements of two-element network synthesis.

**4. Measurements and Instrumentation**  
Units and Standards. Error analysis, measurement of current, Voltage, power, Power-factor and energy. Indicating instruments. Measurement of resistance, inductance, Capacitance and frequency. Bridge measurements. Electronic measuring instruments. Digital Voltmeter and frequency counter. Transducers and their applications to the measurement of non-electrical quantities like temperature, pressure, flow-rate displacement, acceleration, noise level etc. Data acquisition systems. A/D and D/A converters.

#### 5. CONTROL SYSTEMS

Mathematical modelling of physical

systems. Block diagrams and signal flow graphs and their reduction. Time domain and frequency domain analysis of linear dynamical system. Errors for different type of inputs and stability criteria for feedback systems. Stability analysis using Routh-Hurwitz array, Nyquist plot and Bode plot. Root locus and Nicols chart and the estimation of gain and phase margin. Basic concepts of compensator design. State variable matrix design. Sampled data system and performance of such a system with the samples in the error channel. Stability of sampled data system. Elements of non-linear control analysis. Control system components, electro-mechanical, hydraulic, pneumatic components.

#### PAPER - II

#### 1. Electrical Machines and Power Transformers

Magnetic Circuits - Analysis and Design of Power transformers. Construction and testing. Equivalent circuits. Losses and efficiency. Regulation. Auto-transformer, 3-phase transformer. Parallel operation.

Basic concepts in rotating machines. EMF, torque, basic machine types. Construction and operation, leakage losses and efficiency.

D.C. Machines. Construction, Excitation methods. Circuit models. Armature reaction and commutation. Characteristics and performance analysis. Generators and motors. Starting and speed control. Testing, Losses and efficiency. Synchronous Machines. Construction. Circuit model. Operating characteristics and performance analysis. Synchronous reactance. Efficiency. Voltage regulation. Saliient-pole machine, Parallel operation. Hunting. Short circuit transients.

Induction Machines. Construction. Principle of operation. Rotating fields. Characteristics and performance analysis. Determination of circuit model. Circle diagram. Starting and speed control.

Fractional KW motors. Single-phase synchronous and induction motors.

#### 2. Power systems

Types of Power Stations, Hydro, Thermal and Nuclear Stations. Pumped storage plants. Economics and operating factors.

Power transmission lines. Modeling and performance characteristics. Voltage control. Load flow studies. Optimal power system operation. Load frequency control. Symmetrical short circuit analysis. Z-Bus formulation. Symmetrical Components. Per Unit representation. Fault analysis. Transient and steady-state stability of power systems. Equal area criterion.

Power system Transients. Power system Protection Circuit breakers. Relays. HVDC transmission.

#### 3. ANALOG AND DIGITAL ELECTRONICS AND CIRCUITS

Semiconductor device physics, PN junctions and transistors, circuit models and parameters, FET, Zener, tunnel, Schottky, photo diodes and their applications, rectifier circuits, voltage regulators and multipliers, switching behavior of diodes and transistors. Small signal amplifiers, biasing circuits, frequency response and improvement, multistage amplifiers and feed-back amplifiers, D.C. amplifiers, coupling methods, push pull amplifiers, operational amplifiers, wave shaping circuits. Multivibrators and flip-flops and their applications. Digital logic gate families, universal gates- combinational circuits for arithmetic and logic operational, sequential logic circuits. Counters, registers, RAM and ROMs.

#### 4. MICROPROCESSORS

Microprocessor architecture-Instruction set and simple assembly language programming. Interfacing for memory

and I/O. Applications of Micro-processors in power system.

#### 5. COMMUNICATION SYSTEMS

Types of modulation; AM, FM and PM. Demodulators. Noise and bandwidth considerations. Digital communication systems. Pulse code modulation and demodulation. Elements of sound and vision broadcasting. Carrier communication. Frequency division and time division multiplexing, Telemetry system in power engineering.

#### 6. POWER ELECTRONICS

Power Semiconductor devices. Thyristor. Power transistor, GTOs and MOSFETs. Characteristics and operation. AC to DC Converters; 1-phase and 3-phase DC to DC Converters. AC regulators. Thyristor controlled reactors; switched capacitor networks.

Inverters; single-phase and 3-phase. Pulse width modulation. Sinusoidal modulation with uniform sampling. Switched mode power supplies.

### ELECTRONICS & TELECOMMUNICATION ENGINEERING

(For both objective and conventional type papers)

#### PAPER - I

#### 1. Materials and Components

Structure and Properties of Electrical Engineering materials; Conductors, Semiconductors and Insulators, magnetic, Ferroelectric, Piezoelectric, Ceramic, Optical and Super-conducting materials. Passive components and characteristics Resistors, Capacitors and Inductors; Ferrites, Quartz crystal Ceramic resonators, Electromagnetic an Electromechanical components.

#### 2. Physical Electronics, Electron Devices and ICs

Electrons and holes in semiconductors, Carrier Statistics, Mechanism of current flow in a semiconductor, Hall effect; Junction theory; Different types of diodes and their characteristics; Bipolar Junction transistor; Field effect transistors; Power switching devices like SCRs, CTOs, power MOSFETs; Basics of ICs - bipolar, MOS and CMOS types; basic of Opto Electronics.

#### 3. Signals and Systems

Classification of signals and systems: System modelling in terms of differential and difference equations; State variable representation; Fourier series; Fourier representation; Fourier series; Fourier transforms and their application to system analysis; Laplace transforms and their application to system analysis; Convolution and superposition integrals and their applications; Z-transforms and their applications to the analysis and characterisation of discrete time systems; Random signals and probability, Correlation functions; Spectral density; Response of linear system to random inputs.

#### 4. Network theory

Network analysis techniques; Network theorems, transient response, steady state sinusoidal response; Network graphs and their applications in network analysis; Tellegen's theorem. Two port networks; Z, Y, h and transmission parameters. Combination of two ports, analysis of common two ports. Network functions : parts of network functions, obtaining a network function from a given part. Transmission criteria : delay and rise time, Elmore's and other definitions effect of cascading. Elements of network synthesis.

#### 5. Electromagnetic Theory

Analysis of electrostatic and magneto-static fields; Laplace's and Poisson's equations; Boundary value problems and their solutions; Maxwell's equations; application to wave propagation in bounded and unbounded media; Transmission lines : basic theory, standing waves, matching applica-

Continued

tions, misconstrue lines; Basics of wave guides and resonators; Elements of antenna theory.

#### 6. Electronic Measurements and instrumentation

Basic concepts, standards and error analysis; Measurements of basic electrical quantities and parameters; Electronic measuring instruments and their principles of working : analog and digital, comparison, characteristics, application. Transducers; Electronic measurements of non electrical quantities like temperature, pressure, humidity etc; basics of telemetry for industrial use.

#### PAPER - II

#### 1. Analog Electronic Circuits

Transistor biasing and stabilization. Small signal analysis. Power amplifiers. Frequency response. Wide banding techniques. Feedback amplifiers. Tuned amplifiers. Oscillators. Rectifi-

ers and power supplies. Op Amp PLL, other linear integrated circuits and applications. Pulse shaping circuits and waveform generators.

#### 2. Digital Electronic Circuits

Transistor as a switching element; Boolean algebra, simplification of Boolean functions, Karnaguh map and applications; IC Logic gates and their characteristics; IC logic families : DTL, TTL, ECL, NMOS, PMOS and CMOS gates and their comparison; Combinational logic Circuits; Half adder, Full adder; Digital comparator; Multiplexer Demultiplexer; ROM and their applications. Flip flops. R-S, J,K, D and T flip-flops; Different types of counters and registers Waveform generators. A/D and D/A converters. Semiconductor memories.

#### 3. Control Systems

Transient and steady state response of control systems; Effect of feedback

on stability and sensitivity; Root locus techniques; Frequency response analysis. Concepts of gain and phase margins: Constant-M and Constant-N Nichol's Chart; Approximation of transient response from Constant-N Nichol's Chart; Approximation of transient response from closed loop frequency response; Design of Control Systems, Compensators; Industrial controllers.

#### 4. Communication Systems

Basic information theory; Modulation and detection in analogue and digital systems; Sampling and data reconstructions; Quantization & coding; Time division and frequency division multiplexing; Equalization; Optical Communication : in free space & fiber optic; Propagation of signals oaf HF, VHF, UHF and microwave frequency; Satellite Communication.

#### 5. Microwave Engineering

Microwave Tubes and solid state devices, Microwave generation and amplifiers, Waveguides and other Microwave Components and Circuits, Misconstrue circuits, Microwave Antennas, Microwave Measurements, Masers, lasers; Microwave propagation. Microwave Communication Systems terrestrial and Satellite based.

#### 6. Computer Engineering

Number Systems. Data representation; Programming; Elements of a high level programming language PASCAL/C; Use of basic data structures; Fundamentals of computer architecture; Processor design; Control unit design; Memory organisation, I/o System Organisation. Microprocessors : Architecture and instruction set of Microprocessors 8085 and 8086, Assembly language Programming. Microprocessor Based system design : typical examples. Personal computers and their typical uses.

## Appendix-IIA

### INSTRUCTIONS TO THE CANDIDATES FOR FILLING ONLINE APPLICATIONS

Candidates are required to apply Online using the Website <http://www.upsconline.nic.in>

Salient Features of the system of Online Application Form are given hereunder :

Detailed instructions for filling up Online applications are available on the above mentioned website.

Candidates will be required to complete the Online application form containing two stages viz. Part-I and Part-II as per the instructions available in the above mentioned site through drop down menus.

The candidates applying Online are required to pay a reduced fee of Rs. 50/- (Rupees Fifty Only) [excepting SC/ST/Female/PH candidates who are exempted from payment of fee] either by remitting the money in any branch of SBI by cash, or by using net banking facility of SBI or by using any Visa/Master Credit/Debit Card.

Before start filling up Online Application, a candidate must have his photograph and signature duly scanned in the .png/.jpg format in such a manner that each file should not exceed 40 KB each.

The Online applications(Part I and II) can be filled from **8th January, 2011 to 7th February, 2011 till 11.59 p.m.**, after which link will be disabled.

## Appendix-II (B)

### GENERAL INSTRUCTIONS/GUIDELINES FOR THE CANDIDATES OF SPECIFIED REMOTE AREAS (MENTIONED IN PARA 6) WHO WISH TO APPLY OFFLINE

1. Candidates must **use only the form supplied with the information Brochure purchased from any of the designated Head Post Offices/Post Offices listed in Appendix-III.** Form should be purchased from designated post offices only and **not** from any other agency. Candidates must use the form supplied with the Information Brochure only and **they should in no case use photocopy/reproduction/unauthorisedly printed copy of the Form.** The Form will **NOT** be supplied by the Commission's office.

2. The Application Form must be filled in by the candidates in their own handwriting. Since this Form will be processed on computerised machines, candidates should **exercise due care in handling and filling up the Application Form.** They should use **HB pencil only to darken the circles. For writing in the boxes, they should use blue or black pen.**

Since the entries made by the candidates by darkening the circles will be taken into account while processing the applications on computerised machines, they should make these entries very carefully and accurately. Entries in the boxes are meant for confirmatory purposes and these should also, therefore, be made correctly. There should be no variation between the entries made by the candidates by darkening the circles and those written in the accompanying boxes. **Candidates should note that it is mandatory to fill both of these fields carefully so that there is no variation between the two entries.**

3. Candidates should ensure that the signatures appended by them in all the places viz. in their Application Form, Attendance List etc. and in all the correspondence with the Commission, should be identical and there should be no variation of any kind. If any variation is found in the signatures appended by him at different places, his candidature will be liable to be cancelled by the Commission.

4. No change in the entries made in original Application Form will be allowed under any circumstances.

5. The candidates are advised in their own interest to **ensure that the applications reach the Commission's Office on or before the closing date.** Applications received in the Commission's Office after the closing date will not be considered.

6. While filling in his Application Form, the candidate should carefully decide about his/her choice for the centre and Engineering discipline for the examination. More than one application from a candidate giving different centres and/or Engineering discipline will not be accepted in any case. Even if a candidate sends more than one completed application, the Commission will accept only one application at their discretion and the Commission's decision in the matter shall be final.

7. **On the Acknowledgement Card,** the candidates should **write their Application Form No.** (as printed below the bar code on the Form) **and the name of examination** viz. **"Engineering Services Examination, 2011"**. They should also write clearly and legibly their mailing address on the Acknowledgement Card. A postage stamp of Rs. 6/- should be affixed on the card. **The Acknowledgement Card should not be stapled or pinned or tagged or pasted with the Application Form.**

### Eligibility Conditions (in brief)

- (i) **Age limits :**  
21-30 years as on **1.8.2011.** (Upper age limit relaxable for SCs/STs, OBCs and certain other categories as specified in Para 3(II) of Notice).
- (ii) **Educational Qualifications :**  
Degree in Engineering or equivalent. M.Sc Degree or its equivalent with Wireless Communication, Electronics, Radio Physics or Radio Engineering as a special subject also acceptable for certain posts. (See Para 3(III) of Notice).
- (iii) **Fee :**  
**Rs. 50 (Rupees fifty only)** for ONLINE Application  
**Rs. 100/- (Rupees one hundred only)** for Candidates of Specified remote areas applying offline.  
(No fee for Females/SCs/STs/Physically Handicapped only).  
(Ref. Para 4 of Notice).

### Instructions to candidates of specified remote areas applying Offline by filling up the Common Application Form for the Engineering Services Examination, 2011.

#### Side 1 of Application Form

#### Column 1 : Examination for which applying

Darken the circle against "ENGG", in the box pertaining to Name of examination, write ENGG starting from the first box on the left. Also write **2011** in the boxes meant for year of examination.

Candidates are advised to ensure that the name of Examination viz. **ENGG** is correctly written by them in the box. Any error in this regard may result in rejection of their Application Form.

#### Column 2 : Fee

If you have paid the requisite fee of Rs. 100/- (Rupees One hundred only), darken circle 1 and write 1 in the box; or

If you have not paid the fee and are claiming fee remission as Female, SC, ST or Physically Handicapped, darken circle 2 and write 2 in the box.

**N.B. :** Fee is payable only in the form of Central Recruitment Fee Stamp, as per instructions against Column 12.

#### Column 3 : (I) Whether Physically Handicapped?

If you are not a physically handicapped person, darken circle 1 for No and write 1 in the box; or

If you are a physically handicapped person, darken circle 2 for yes and write 2 in the box.

#### (II) If yes, indicate category

Fill up this Column only if your answer to Column 3(I) is yes.

If you are Orthopaedically handicapped, darken circle 1 and write 1 in the box; or

If you are Blind, darken circle 2 and write 2 in the box; or

If you are Deaf-Mute, darken circle 3 and write 3 in the box.

#### Column 4 : Community

If you belong to SC, darken circle 1 and write 1 in the box; or

If you belong to ST, darken circle 2 and write 2 in the box; or

If you belong to OBC, darken circle 3 and write 3 in the box; or

If you belong to General Category (Others), darken circle 4 and write 4 in the box.

**Note 1 :** Candidates belonging to OBCs but coming in the Creamy Layer and thus not being entitled to OBC reservation should indicate their community as General Category (Others) Code No. 4.

**Note 2 :** Candidates belonging to neither SC, ST, nor OBC communities should write Code No. 4 (General Category) against the Column for Community and not leave it blank.

**Note 3 :** No change in the community status indicated by a candidate in his/her Application Form for the Examination will ordinarily be allowed by the Commission at a subsequent stage.

#### Column 5 : Sex

If you are Male, darken circle 1 and write 1 in the box; or

If you are Female, darken circle 2 and write 2 in the box;

#### Column 6 : Nationality

If you are an Indian national, darken circle 1 and write 1 in the box; or

If you are not an Indian national, darken circle 2 and write 2 in the box.

#### Column 7 : Name of the candidate

For filling up this column, first write in the boxes your full name (in English) in capital letters exactly as recorded in your Matriculation/High School/Secondary or equivalent examination certificate. Write a single letter in a box. Leave a box blank between any two parts of the name. Then darken the corresponding circle below each letter. Do not darken a circle below a blank box. Do not overshoot the boxes. Abbreviate name only if necessary. Do not use any prefix such as shri, Kum., Dr. etc with your name.

#### Column 8 : Date of Birth

Darken the appropriate circles for the day, month and year of your birth as recorded in your Matriculation/High School/Secondary or equivalent examination certificate. Then write in the boxes using numerals 01 to 31 for day; numerals 01 to 12 for month and the last two digits for the year of birth.

Continued

**Column 9 : Father's Name**

Write your father's name (in English) in capital letters. Write a single letter in each box. Leave a box blank between any two parts of the name. Do not use any prefix such as Shri, Dr. etc.

**Column 10 : Address**

Write your complete mailing address including your name in English capital letters or Hindi within the box provided for the purpose. Also write the PIN Code therein. Write with **blue or black ball pen** only. Do not write outside the box. Please note that this address will be photocopied as such in all letters to be sent to you and therefore, it should be very clearly and legibly written.

If you make any mistake in writing the address, cover the whole box with an exact sized white paper slip and rewrite your address on that.

**Column 11 : Photograph**

Paste firmly in the space provided your recent photograph of 4 cm. x 5 cm. size (Preferably in black and white). **Do not staple the photograph. Photograph should neither be signed by you nor it should be got attested.**

**Column 12 : Space for CRF Stamp**

Fee to be paid for the Engineering Services Examination is Rs. 100/- (Rupees One hundred only). SC/ST and Physically Handicapped candidates are not required to pay any fee. No fee exemption is however available to OBC candidates and they are required to pay the full prescribed fee.

Fee is payable **only** through **Central Recruitment Fee Stamp** (Not postage stamps). No other mode of payment is acceptable. Obtain only one single CRF Stamp of Rs. 100/- denomination from the post office and paste it firmly within the box. After pasting the CRF Stamp on the Form, get it cancelled from the post office of purchase in the space provided. Do not staple the CRF Stamp.

**Side 2 of Application Form****Column 13 : (I) Are you residing in a remote area or abroad**

Candidates are required to Darken the Circle 1 against 'yes' as the option of applying offline is available only for the Candidates residing in a remote area specified in the Notice of the Examination.

**(II) If yes, indicate area code :**

Darken the appropriate circles for the area code as given below and then write the same code in the boxes.

**AREA CODE FOR REMOTE AREAS**

Area	Code	Area	Code
Assam .....	01	Jammu & Kashmir .....	09
Meghalaya .....	02	Lahaul and Spiti District	
Arunachal Pradesh .....	03	and Pangi Sub-Division of	
Mizoram .....	04	Chamba District of	
Manipur .....	05	Himachal Pradesh .....	10
Nagaland .....	06	Andaman & Nicobar Island .....	11
Tripura .....	07	Lakshadweep .....	12
Sikkim .....	08		

**Column 14 : Examination Centre Code**

Choose the Examination Centre from the list given below where you wish to appear and its code. Darken the appropriate circles and then write the same code in the boxes.

**List of centres of Examination**

Centre	Code	Centre	Code	Centre	Code
Agartala	45	Dispur	09	Nagpur	13
Ahmedabad	01	Gangtok	42	Panaji (Goa)	36
Aizawl	47	Hyderabad	10	Patna	15
Aligarh	21	Imphal	44	Port Blair	37
Allahabad	02	Itanagar	48	Raipur	49
Bangalore	03	Jaipur	11	Ranchi	41
Bareilly	54	Jammu	34	Sambalpur	53
Bhopal	04	Jorhat	46	Shillong	16
Chandigarh	35	Kochi	24	Shimla	17
Chennai	12	Kohima	43	Srinagar	18
Cuttack	07	Kolkata	06	Thiruvananthapuram	19
Dehradun	14	Lucknow	26	Tirupati	50
Delhi	08	Madurai	40	Udaipur	52
Dharwad	39	Mumbai	05	Vishakhapatnam	51

**Column 15 : Educational Qualification Code**

Codes prescribed for educational qualification are as follows :

**Code Educational qualification**

- 01 If you have already passed the requisite qualifying Examination;  
02 If you have appeared/appearing at the requisite qualifying Examination;

Choose the correct code applicable in your case and darken the appropriate circles. Write the same code in the boxes.

**Column 16 : (I) Whether claiming age relaxation**

If you are claiming age relaxation, darken circle 1 for Yes and write 1 in the box; or If you are not claiming age relaxation, darken circle 2 for No and write 2 in the box.

**(II) If Yes, indicate category code**

Fill up this Column only if your response to Column 16(I) is Yes.

Darken the appropriate circles for category code given below and then write the same code in the boxes.

**Category - Codes for Claiming Age Relaxation**

(Refer Para-3 (II) (b) and (c) of this Notice).

Code No.	Category	Extent of Age Relaxation Permissible
01.	SC and ST	5 years
02	OBC	3 years
03	Certain categories of Departmental Government servants who are covered under Para 3(II) (b) of Commission's Notice published in Employment News	5 years
04	Departmental Govt. servants + SC/ST (as against Code No. 03)	10 years
05.	Departmental Govt. servants + OBC (as against Code No. 03)	8 years
06	Blind, Deaf-Mute and Orthopaedically Handicapped persons.	10 years
07	Blind, Deaf-Mute and Orthopaedically Handicapped persons + SC/ST	15 years
08	Blind, Deaf-Mute and Orthopaedically Handicapped persons + OBC	13 years
09	Blind, Deaf-Mute and Orthopaedically Handicapped persons + Departmental Govt. Servants (as against Code No. 03)	15 years
10	Blind, Deaf-Mute and Orthopaedically Handicapped persons + SC/ST + Departmental Govt. Servants (as against Code No. 03)	20 years
11	Blind, Deaf-Mute and Orthopaedically Handicapped persons + OBC + Departmental Govt. Servants (as against Code No. 03)	18 years
12	Defence Services Personnel disabled in operations during hostilities with any foreign country or in a disturbed area and released as a consequence thereof.	3 years
13	Defence Services Personnel (as against Code No. 12) + SC/ST	8 years
14	Defence Services Personnel (as against Code No. 12) + OBC	6 years
15	Defence Services Personnel (as against Code No. 12) + Departmental Govt. Servants (as against Code No. 03)	8 years
16	Defence Services Personnel (as against Code No. 12) + SC/ST + Departmental Govt. Servants (as against Code No. 03)	13 years
17	Defence Services Personnel (as against Code No. 12) + OBC + Departmental Govt. Servants (as against Code No. 03)	11 years
18	Ex-Servicemen including Commissioned Officers and ECOs/SSCOs who have rendered at least five years Military Service as on 1st August, 2011 and have been released (i) on completion of assignment (including those whose assignment is due to be completed within one year from 1st August, 2011) otherwise than by way of dismissal or discharge on account of misconduct or inefficiency; or (ii) on account of physical disability attributable to Military Service; or (iii) on invalidment.	5 years
19	Ex-Servicemen including Commissioned Officers and ECOs/SSCOs (as against Code No. 18) + SC/ST	10 years
20	Ex-Servicemen including Commissioned Officers and ECOs/SSCOs (as against Code No. 18) + OBC	8 years
21	Ex-Servicemen including Commissioned Officers and ECOs/SSCOs (as against Code No. 18) + Departmental Govt. Servants (as against Code No. 03)	10 years

Continued



22	Ex-Servicemem including Commissioned Officers and ECOs/SSCOs (as against Code No. 18)	+ SC/ST + Servants (as against Code No. 03)	Departmental Govt.	15 years
23	Ex-Servicemem including Commissioned Officers and ECOs/SSCOs (as against Code No. 18)	+ OBC	Departmental Govt. + Servants (as against Code No. 03)	13 years
24	ECOs/SSCOs who have completed an initial period of assignment of five years of Military Service as on 1st August, 2011 and whose assignment has been extended beyond five years and in whose case the Ministry of Defence issues a certificate that they can apply for civil employment and that they will be released on three months notice on selection from the date of receipt of offer of appointment.			5 years
25	ECOs/SSCOs (as against Code No. 24)	+ SC/ST		10 years
26	ECOs/SSCOs (as against Code No. 24)	+ OBC		8 years
27	ECOs/SSCOs (as against Code No. 24)	+ Departmental Govt. Servants (as against Code No. 03)		10 years
28	ECOs/SSCOs (as against Code No. 24)	+ SC/ST + Servants (as against Code No. 03)	Departmental Govt.	15 years
29	ECOs/SSCOs (as against Code No. 24)	+ OBC + Servants (as against Code No. 03)	Departmental Govt.	13 years
30	Candidates who had ordinarily been domiciled in the State of Jammu & Kashmir during the period from 1st January, 1980 to 31st December, 1989			5 years
31	Candidates who had ordinarily been domiciled in the State of J & K (as against Code No. 30)	+ SC/ST		10 years
32	Candidates who had ordinarily been domiciled in the State of J & K (as against Code No. 30)	+ OBC		8 years
33	Candidates who had ordinarily been domiciled in the State of J & K (as against Code No. 30)	+ Departmental Govt. Servants (as against Code No. 03)		10 years
34	Candidates who had ordinarily been domiciled in the State of J & K (as against Code No. 30)	+ SC/ST + Servants (as against Code No. 03)	Departmental Govt.	15 years
35	Candidates who had ordinarily been domiciled in the State of J & K (as against Code No. 30)	+ OBC + Servants (as against Code No. 03)	Departmental Govt.	13 years

**Columns 17 to 20 :**

Candidates applying for the Engineering Service Examination are **not** required to fill any of these columns. They should therefore, leave these columns blank.

**Columns 21 : Engineering Services Examination**

Darken circle against the branch of Engineering (i.e. Civil, Mechanical, Electrical or Electronics & Telecommunication Engineering) for which you wish to compete at the examination (only one Branch of Engineering to be specified) and write the appropriate code in the box.

**Column 22 :**

Candidates appearing for the Engineering Services Examination are not required to fill this column. They should, therefore, leave this Column blank.

**Column 23 : Declaration**

The candidate must read the declaration carefully before signing. In Sub-para (i), the candidates must fill up the Examination Notice number viz. **04/2011-ENGG.** and date of publication of Notice in Employment News/Rozgar Samachar viz., **8.1.2011** in the spaces provided before the asterisk marks.

**Column 24 : Signature of candidate**

Make your usual signature in **blue or black ball pen** within the box provided. Your signature must not overflow or touch the border of the box provided. **Do not merely write your name in capital letters in place of signature.** Unsigned applications will be rejected.

Also write the place and date of signing the Form in the spaces provided for the purpose.

**VERIFY THE FOLLOWING BEFORE MAILING THE APPLICATION**

1. That you have used the Application Form purchased from the designated Head Post Offices/Post Offices only.
2. That you have filled in all the relevant columns of the Application Form by blackening the appropriate circles and also writing the corresponding code(s) in boxes. It may be carefully checked that there is no variation between the entries made by you by darkening the circles and those written in the accompanying boxes.
3. That you have affixed your recent photograph preferably in black & white (unsigned and unattested) in column 11 of the Application Form.
4. That in case you are required to pay fee, you have pasted a Central Recruitment Fee Stamp of Rs. 100/- denomination in column 12 of the Application Form and have got it cancelled from the Post Office.
5. That you have signed in column 24 of the Application Form.
6. That only one Application Form and one Acknowledgement Card is being mailed in the envelope supplied to you with the Brochure **and no other enclosure is attached therewith.**
7. That you have written the name of examination viz., **“Engineering Services Examination, 2011”** on the envelope meant for despatch of Application Form and Acknowledgement Card.

**Appendix-III**

**List of Head Post Offices/Post Offices where UPSC Application Forms for Offline Applications only are available**

**Andhra Pradesh Circle :** Hyderabad GPO, Hyderabad Jubilee, Kachiguda Stn., Khairatabad, Secunderabad, Trimulgherry, Adilabad, Anantapur, Arundelpet (Guntur), Chittoor, Cuddapah, Eluru, Kakinada, Karimnagar, Khammam, Kurnool, Machilipatnam, Mahaboobnagar, Medak, Nalgonda, Nellore, Nizamabad, Ongole, Srikakulam, Vizianagaram, Vijayawada, Vikarabad, Visakhapatnam, Warangal.

**Assam Circle :** Guwahati, Barpeta, Dhubri, Dibrugarh, Diphu, Golaghat, Hailakandi, Jorhat, Karimganj, Kokrajhar, Mangaldoi, Nagaon, Nalbari, North Lakhimpur, Sibsagar, Silchar, Tezpur, Tinsukia.

**Bihar Circle :** Patna GPO, Bankipur, Arrah, Aurangabad, B. Deoghar, Bokaro Steel City, Banka, Battiah, Begusarai, Bhagalpur, Biharsharif, Buxar, Chaibasa, Chapra, Daltonganj, Darbhanga, Dhanbad, Dumka, Gaya, Giridih, Gopalganj, Gumla, Hajipur, Hazaribagh, Jamshedpur, Katihar, Madhubani, Motihari, Munger, Muzaffarpur, Nawada, Purnea, Ranchi, Saharsa, Samastipur, Sasaram, Sitamarhi, Siwan.

**Delhi Circle :** Delhi GPO, New Delhi, Indra Prastha, Ramesh Nagar, Sarojini Nagar, Lodi Road, Krishna Nagar, Ashok Vihar, Parliament Street, UPSC PO.

**Gujarat Circle :** Gandhinagar, Ahmedabad, Amreli Anand, Bharuch, Bhavnagar, Bhuj, Dahod, Godhra, Himatnagar, Jamnagar, Junagadh, Kheda, Mehesana, Navrangpura, Navsari, Palanpur, Patan, Porbandar, Rajkot, Revdi Bazar, Surat, Surendranagar, Valsad, Vadodara.

**Haryana Circle :** Ambala GPO, Ambala City, Bahadurgarh, Bhiwani, Faridabad, Gurgaon, Hissar, Jind, Karnal, Kurukshetra, Narnaul, Panipat, Rohtak, Sirsa, Sonapat.

**Himachal Pradesh Circle :** Shimla, Bilaspur, Chamba, Hamirpur, Kangra, Keylong, Kulu, Mandi, Nahan, Recong, Peo, Solan, Una.

**Jammu & Kashmir Circle :** Srinagar, Anantnag, Baramulla, Jammu, Kathua, Leh, Rajouri, Udhampur.

**Karnataka Circle :** Bangalore GPO, Bangalore City, Basavangudi, HAL II Stage, Jayanagar, R.T. Nagar, Bagalkot, Raichur, Rajajinagar, Belgaum Bellary, Bidar, Bijapur, Chikmagalur, Chitradurga, Devengere, Dharwad, Gadag, Gulbarga, Hassan, Haveri, Hubli, Karwar, Kolar, Madikere, Mandya, Mangalore, Manipal, Mysore, Nanjagud, Shimoga, Sirsi, Tumkur, Udupi.

**Kerala Circle :** Trivandrum, Alleppey (Alappuzha), Calicut, Cannanore, Ernakulam, Kalpetta, Kasargod, Kattappana, Kottayam, Malappuram, Palghat, Pathanamthitta, Quilon, Trichur, Kavaratti (**Lakshadweep**).

**Madhya Pradesh Circle :** Bhopal GPO, Bilaspur, Ambikapur, Balaghat, Betul, Bind, Chhatarpur, Chhindwara, Damoh, Dewas, Dhar, Durg, Guna, Hoshangabad, Indore, Jabalpur, Jagdalpur, Jabua, Khandwa, Khargone, Lashkar, Mandla, Mandsaur, Morena, Narsinghpur, Neemuch, Raigarh, Raipur, Raisen, Rajgarh (Biora), Rajnandgaon, Ratlam, Rewa, Sagar Cantt., Satna, Sehore, Seoni, Shahdol, Shajapur, Shivpuri, Sidhi, Tikamgarh, Ujjain, Vidisha.

**Maharashtra Circle :** Mumbai GPO, Andheri, Borivili, Chembur, Chinehbunder, Dadar, Girgaon, Kalbadevi, Mahim, Mandvi, Mumbai Central, Ahmednagar, Akola, Alibag, Amravati, Aurangabad, Beed, Bhandara, Buldhana, Chandrapur, Dhule, Jalagaon, Jalna, Karad, Kolhapur, Latur, Nagpur GPO, Nanded, Nasik, Osmanbad, Parbhani, Pune, Ratnagiri, Sangli, Satara, Sawantwadi, Solapur, Thane, Wardha, Yeotmal, Margaon (**Goa**), Panaji (**Goa**).

**North East Circle :** Agartala, Aizwal, Dharmanagar, Imphal, Itanagar, Kohima, Radhakishorepur, Shillong, Tura.

**Orissa Circle :** Bhubaneswar GPO, Angul, Bolangir, Balasore, Bargarh, Baripada, Berhamapur, Bhadrak, Bhawanipatna, Cuttack GPO, Dhenkanal, Jagatsinghpur, Jajpur, Jeypore (K), Jharsuguda, Kendrapara, Keonhargarh, Koraput, Nayagarh, Parlakhemundi, Phulbani, Puri, Rayagada, Sambalpur, Sundargarh.

**Punjab Circle :** Amritsar, Bhatinda, Faridkot, Ferozepur, Gurdaspur, Hoshiarpur, Jalandhar City, Kapurthala, Ludhiana, Moga, Patiala, Ropar, Sangrur, **Chandigarh**.

**Rajasthan Circle :** Jaipur GPO, Jawahar Nagar, Shastri Nagar, Ajmer, Alwar, Banswara, Baran, Barmer, Bharatpur, Bhilwara, Bikaner, Bundi, Chittorgarh, Churu, Dausa, Dholpur, Dungarpur, Hanumangarh, Hindaun, Jaisalmer, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Kankroli, Kota, Nagaur, Pali Marwar, Sawaimadhopur, Shastri Circle Udaipur, Sikar, Sirohi, Sriganganagar, Tonk.

**Tamil Nadu Circle :** Chennai GPO, Anna Road, St. Thomas Mount, T. Nagar, Bodinayakanur, Chengalpattu, Chidambaram, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kanchipuram, Karur, Madurai, Nagapattinam, Nagercoil, Namakkal, Pudukottai, Ramanathapuram, Salem, Sivagangai, Tambaram, Thanjavur, Thiruvannamalai, Tiruchirapalli, Tirunelveli, Tiruvallur, Tiruvayur, Turaiyur, Tuticorin, Udhamandalam, Vellore, Villupuram, Virudhunagar, **Puducherry**.

**Uttar Pradesh Circle :** Lucknow, Lucknow Chowk, Agra, Akbarpur, Aligarh, Allahabad, Allahabad Katchery, Almora, Auraiya, Azamgarh, Bahraich, Ballia, Balrampur, Banda, Bansi, Barabanki, Bareilly, Basti, Bijnor, Budaun, Bulandshahr, Dehradun, Deoria, Dhampur, Etah, Etawah, Faizabad, Fatehgarh, Fatehpur, Firozabad, Ghaziabad, Ghazipur, Gonda, Gopeshwar, Gorakhpur, Haldwani, Hamirpur, Hardoi, Jaunpur, Jhansi, Kanpur, Kheri, Lalitpur, Mainpuri, Mathura, Mau, Meerut, Mirzapur, Moradabad, Muzaffarnagar, Nainital, Orai, Pauri, Pdrauna, Pilibhit, Pithoragarh, Pratapgarh, Rai Bareli, Rampur, Roorkee, Saharanpur, Shahajahanpur, Sitapur, Sultanpur, Tehri, Unnao, Varanasi.

**West Bengal Circle :** Kolkatta GPO, Alipore, Barabazar, Belegkata, Belghoria, Cassipore, Park Street, Tollygunge, Balurghat, Bankura, Barasat, Berhampore, Burdwan, Chinsurah, Cooch Behar, Darjeeling, Howrah, Jalpaiguri, Krishnagar, Malda, Midnapore, Purulia, Suri, Siliguri, Port Blair (**Andaman & Nicobar Islands**), Gangtok (**Sikkim**).

Selected Field Post Offices through 1 Central Base Post Office (CBPO), 56 APO; 2 CBPO (99 APO)

## Appendix-IV

## Special Instructions to Candidates for Conventional type papers

## (PART-A)

## 1. Articles permitted inside Examination Hall

Battery-operated pocket calculators of "non-programmable" type only, mathematical/engineering/drawing instruments, including a flat rule divided on the edges into inches and tens of an inch and into centimeters and millimeters, a slide rule, set squares, a protractor and a pair of compasses, pencils, coloured pencils, mapping pens, eraser, T-square and drawing board for use wherever necessary. Candidates are not allowed to bring with them any "Tables or Charts" for use in the Examination Hall.

## 2. Tables to be supplied by UPSC

If it is considered necessary for answering the questions set in any paper, the Commission may supply any of the following for reference purpose only :

- Mathematical/Physical/Chemical and Engineering Tables (including Logarithmic Tables);
- Steam Table (including Mollier Diagrams for Temperature up to 800°C and Pressure up to 500 Kg/Cm);
- National Building Code of India 1970 or 1983 Group 2 Part VI;
- Any other special articles as may be necessary for the candidates to answer the questions set in the question paper.

After conclusion of the examination, return the above items to the Invigilator.

## 3. Answers to be written in own hand

Write the answers in your own hand in ink. Pencil may be used for maps, mathematical drawings or rough work.

## 4. Check Answer Book

The candidate must write his roll number (and not his name) only in the space provided for the purpose on every answer book used by him. Before writing in the answer book, please see that it is complete. In case there are any missing pages, it should be got replaced.

Do not tear out any pages from the Answer Book. If you use more than one Answer Book, indicate on the cover of first Answer Book the total number of Answer Books used. Do not leave any blank, unused spaces between answers. If such spaces are left, score them out.

## 5. Answers in excess of prescribed number will be ignored

The candidate must attempt questions strictly in accordance with the directions given on each question paper. If questions are attempted in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining answers will be ignored.

## 6. Questions relating to graph/precis should be attempted only on graph/precis sheets to be supplied on demand by the Invigilators. All loose sheets such as precis sheet, drawing papers, graph sheets etc. whether used or not, should be placed inside the answer books and fastened along with the additional answer book(s), if any. Candidates who fail to observe this instruction will be penalized. Do not write your roll number on these sheets.

## 7. Unfair means strictly prohibited

Do not copy from the papers of any other candidate nor allow your papers to be copied nor give nor attempt to give nor obtain nor attempt to obtain irregular assistance of any description. It will be the responsibility of every candidate to ensure that his answers are not copied by another candidate. Failure to do so will invite penalty, as may be awarded by the Commission for adoption of unfair means.

## 8. Conduct in Examination Hall

Do not misbehave in any manner or create disorderly scene in the examination hall or harass or bodily harm the staff deployed for the conduct of examination. You will be severely penalized if you attempt to do so.

## 9. Please read carefully and abide by the instructions printed on the Question Paper and on the Answer Book supplied in the Examination Hall.

## 10. The candidates are not allowed to leave the Examination Hall before the expiry of prescribed time period of the examination.

## (PART-B)

## Special Instructions to Candidates for objective type tests

## 1. Articles permitted inside Examination Hall

Clip board or hard board (on which nothing is written), a good quality H.B. pencil for making responses on the Answer Sheet, eraser, pencil sharpener and a pen containing blue or black ink. Answer Sheet and sheet for rough work will be supplied by the Invigilator.

## 2. Articles not permitted inside Examination Hall

Do not bring into the Examination Hall any article other than those specified above, e.g., books, notes, loose sheets, electronic or any other type of calculators, mathematical and drawing instruments, Log Tables, stencils of maps, slide rules, Test Booklets, rough sheets pertaining to earlier session(s), etc.

**Mobile phones, pagers or any other communication devices are not allowed inside the premises where the examination is being conducted. Any infringement of these instructions shall entail disciplinary action including ban from future examinations.**

**Candidates are advised in their own interest not to bring any of the banned items including mobile phones, pagers to the venue of the examination, as arrangements for safekeeping cannot be assured.**

## 3. Penalty for wrong Answers (in Objective Type Papers)

**THERE WILL BE PENALTY (NEGATIVE MARKING) FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.**

## (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one third (0.33) of the marks assigned to that question will be deducted as penalty.

## (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.

## (iii) If a question is left blank i.e. no answer is given by the candidate, there will be no penalty for that question.

## 4. Unfair means strictly prohibited

No candidates shall copy from the papers of any other candidate nor permit his papers to be copied nor give nor attempt to give nor obtain nor attempt to obtain irregular assistance of any description.

## 5. Conduct in Examination Hall

No candidates should misbehave in any manner or create disorderly scene in the Examination Hall or harass the staff employed by the Commission for the conduct of the examination. Any such misconduct will be severely penalised.

## 6. Answer Sheet particulars

(i) Write in ink or ball point pen your Centre and subject followed by Test Booklet series (in bracket), subject code and roll number at the appropriate space provided on the Answer Sheet at the top. Also encode (in pencil) your booklet series (A, B, C or D, as the case may be), subject code and roll number in the circles provided for the purpose in the Answer Sheet. The guidelines for writing the above particulars and for encoding the above particulars are given in Annexure. In case the booklet series is not printed on the Test Booklet or Answer Sheet is unnumbered, please report immediately to the Invigilator and get the Test Booklet/Answer Sheet replaced.

(ii) All corrections and changes in writing the roll number must be initialed by the candidates as well as by the Invigilator and countersigned by the Supervisor.

(iii) Immediately after commencement of the examination please check that the Test Booklet supplied to you does not have any unprinted or torn or missing pages or items etc. If so, get it replaced by a complete Test Booklet of the same series and subject.

## 7. Do not write your name or anything other than the specific items of information asked for, on the Answer Sheet/Test Booklet/sheet for rough work.

## 8. Do not fold or mutilate or damage or put any extraneous marking in the Answer Sheet. Do not write anything on the reverse of the Answer Sheet.

9. Since the Answer Sheets will be evaluated on computerised machines, candidates should exercise due care in handling and filling up the Answer Sheets. **They should use HB pencil**

**only to darken the circles. For writing in boxes, they should use blue or black pen. Since the entries made by the candidates by darkening the circles will be taken into account while evaluating the Answer Sheets on computerised machines, they should make these entries very carefully and accurately.**

**The candidate must mark responses in the Answer Sheet with good quality HB pencil.**

## 10. Method of marking answers

In the "OBJECTIVE TYPE" of examination, you do not write the answers. For each question (hereinafter referred to as "Item") several suggested answers (hereinafter referred to as "Responses") are given. You have to choose one response to each item.

The question paper will be in the Form of TEST BOOKLET. The booklet will contain item bearing numbers 1, 2, 3 ..... etc. Under each item, Responses marked (a), (b), (c), (d) will be given. Your task will be to choose the correct response. If you think there is more than one correct response, then choose what you consider the best response.

In any case, for each item you are to select only one response. If you select more than one response, your response will be considered wrong.

In the Answer Sheet, Serial Nos. from 1 to 160 are printed. Against each numbers, there are circles marked (a), (b), (c) and (d). After you have read each item in the Test Booklet and decided which one of the given responses is correct or the best, **you have to mark your response by completely blackening with pencil to indicate your response. Ink should not be used for blackening the circle on the Answer Sheet.**

For example, if the correct answer to item 1 is (b), then the circle containing the letter (b) is to be completely blackened with pencil as shown below :-

Example : (a) (b) (c) (d)

To change a wrong marking, erase it completely and remark the new choice.

## 11. Signature on Attendance List

You are required to write the serial number of the Answer Sheet and Test Booklet and Series of Test Booklet issued to you on the Attendance List and to sign in appropriate column against your name. Any change or correction in these particulars should be authenticated by the candidate by putting his signatures.

## 12. Please read and abide by the instructions on the cover of Test Booklet. If any candidate indulges in disorderly or improper conduct, he will render himself liable for disciplinary action and/or imposition of a penalty as the Commission may deem fit.

## 13. The candidates are not allowed to leave the Examination Hall before the expiry of prescribed time period of the examination.

## Annexure

## How to fill in the Answer Sheet of objective type tests in the Examination Hall

Please follow these instructions very carefully. You may note that since the Answer Sheets are to be evaluated on machine, any violation of these instructions may result in reduction of your score for which you would yourself be responsible.

Before you mark your responses on the Answer Sheet, you will have to fill in various particulars in it.

As soon as the candidate receives the Answer Sheet, he/she should check that it is numbered at the bottom. If it is found unnumbered he/she should at once get it replaced by a numbered one.

You will see from the Answer Sheet that you will have to fill in the top line, which reads thus :

Write in Ink/स्याही से लिखें

केन्द्र Centre	विषय Subject	विषय कोड S. Code		अनुक्रमांक Roll Number
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If you are, say, appearing for the examination in Delhi Centre for the General Studies Paper and your Roll No. is 081276 and your Test Booklet series is 'A', you should fill in thus, using ink or ball point pen.

\*This is just illustrative and may not be relevant to the Examination concerned.

Write in Ink/स्याही से लिखें

केन्द्र Centre Delhi	विषय Subject General Studies (A)	विषय कोड S. Code	9 9	अनुक्रमांक Roll Number
-------------------------	--	---------------------	-----	---------------------------

You should write in ink or ball point pen the name of the centre and subject in English or Hindi.

The test Booklet Series is indicated by Alphabets A, B, C, or D at the top right hand corner of the Booklet.

Write your Roll Numbers exactly as it is in your Admission Certificate in ink in the boxes provided for this purpose. Do not omit any zero(s) which may be there.

The next step is to find out the appropriate subject code from the Time Table. Now encode the Test Booklet Series, Subject Code and the Roll Number in the circles provided for this purpose. Do the encoding with H.B. Pencil. The name of the Centre need not be encoded.

Writing and encoding of Test Booklet Series is to be done after receiving the Test Booklet and confirming the Booklet Series from the same.

For General Studies subject paper of 'A' Test Booklet Series you have to encode the subject code, which is 99. Do it thus.

पुस्तिका क्रम  
Booklet Series (A)

विषय  
Subject

9	9
①	①
②	②
③	③
④	④
⑤	⑤
⑥	⑥
⑦	⑦
⑧	⑧
●	●

अनुक्रमांक  
Roll Numbers

0	8	1	2	7	6
●	⑧	①	②	⑦	⑥
①	①	●	①	①	①
②	②	②	●	②	②
③	③	③	③	③	③
④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	●
⑦	⑦	⑦	⑦	●	⑦
⑧	●	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨

All that is required is to blacken completely the circle marked 'A' below the Booklet Series and below the subject code blacken completely the Circles for "9" (in the first vertical column) and "9" (in the second vertical column). You should then encode the Roll No. 081276. Do it thus similarly :

**Important :** Please ensure that you have carefully encoded your subject, Test Booklet series and Roll Number. If you make any mistake, erase it completely and remark correctly.

\*This is just illustrative and may not be relevant to your Examination.