

(TO BE PUBLISHED IN THE EMPLOYMENT NEWS / ROZGAR SAMACHAR DATED 14.01.2012 )

**STAFF SELECTION COMMISSION**

**Date of Exam: 08.04.2012**

**Closing Date : 10.02.2012**

**NOTICE**

**JUNIOR ENGINEERS (CIVIL, MECHANICAL, ELECTRICAL, QUANTITY SURVEYING AND CONTRACT) EXAMINATION, 2012**

1	Commission will hold a Combined All India Open Examination on 08.04.2012 for recruitment to the posts of JUNIOR ENGINEER (CIVIL) and JUNIOR ENGINEER (ELECTRICAL) in Central Public Works Department (CPWD) and Department of Posts, JUNIOR ENGINEER (CIVIL), JUNIOR ENGINEER (ELECTRICAL & MECHANICAL), JUNIOR ENGINEER (Quantity Surveying & Contract) in Military Engineering Service (MES), JUNIOR ENGINEER (CIVIL & MECHANICAL) in Central Water Commission (CWC) and Farakka Barrage, for which Degree or Diploma in Civil or Electrical or Mechanical Engineering from an institution recognized by Govt. of India or equivalent qualification is the minimum qualification. The Examination will comprise of a Written Examination followed by Interview.
2	The Commission will not undertake detailed scrutiny of applications for the eligibility and other aspects at the time of written examination and, therefore, the application is accepted only provisionally. The candidates are advised to go through the requirements of educational qualification, age etc. and satisfy themselves that they are eligible before applying. Copies of supporting documents will be sought only from those candidates who qualify for the Interview. When scrutiny is undertaken, if any claim made in the application is not found substantiated, the candidature will be cancelled and the Commission's decision shall be final.
3	<b>CANDIDATES IN THEIR OWN INTEREST ARE ADVISED TO GO THROUGH THE DETAILED INSTRUCTIONS CONTAINED IN THIS NOTICE AND ALSO AVAILABLE ON THE WEBSITE OF THE COMMISSION: <a href="http://ssc.nic.in">http://ssc.nic.in</a> CAREFULLY BEFORE APPLYING.</b>
4	Candidates seeking reservation benefits available for SC/ST/OBC/PH/EXS must ensure that they are entitled to such reservation as per eligibility prescribed in the Notice. They should also be in possession of the certificates in the prescribed format in support of their claim.
5	Candidates with physical disability of 40% and more only would be considered as <b>PHYSICALLY HANDICAPPED (PH)</b> and entitled to reservation for PH. The Posts are not identified suitable for VH persons.
6	Central Government civilian employees/servants claiming age relaxation should be in position to produce certificate in the prescribed format from their office in respect of the length of continuous service which should be for not less than three years in the immediate period preceding the closing date for receipt of application. They should continue to have the status of Central Government civilian servants/employees from the day of application till the time of appointment on the basis of their performance in this examination, to be eligible for such age relaxation.
7	<b>FEE: RUPEES ONE HUNDRED ONLY (Rs. 100/-)</b> Fee is exempted for all Women candidates and candidates belonging to Scheduled Caste, Scheduled Tribe, Physically Handicapped, and Ex-Servicemen, as per Govt. orders.
8	<b>CLOSING DATE : 10.02.2012 (upto 5.00 PM).</b> For candidates residing in Assam, Meghalaya, Arunachal Pradesh, Mizoram, Manipur, Nagaland, Tripura, Sikkim, Jammu and Kashmir, Lahaul and Spiti District and Pangi Sub Division of Chamba District of Himachal Pradesh, Andaman and Nicobar Islands, Lakshadweep and for candidates residing abroad – 17.02.2012. <b>APPLICATIONS RECEIVED LATE WILL NOT BE ENTERTAINED.</b>
9	Only a single application will be entertained. Candidature in respect of multiple applications will be summarily rejected.
10	<b>MOBILES AND OTHER ELECTRONIC GADGETS ARE BANNED WITHIN THE PREMISES OF THE EXAMINATION CENTRES.</b>
11	<b>CANDIDATES MAY SEND APPLICATION IN THE PRESCRIBED FORMAT BY POST OR APPLY ON LINE. FACILITY OF ON-LINE APPLICATION WILL BE AVAILABLE FROM 14.01.2012 TO 10.02.2012 FOR PART II REGISTRATION AND UPTO 08-02-2012 FOR PART-1 REGISTRATION. CANDIDATES APPLYING ON-LINE SHOULD RETAIN THE REGISTRATION NUMBER ASSIGNED TO THEM ONLINE AND DETAILS OF PAYMENT OF FEE FOR FURTHER CORRESPONDENCE WITH THE COMMISSION. THEY SHOULD NOT SUBMIT PRINT OUTS OF THEIR APPLICATION TO THE COMMISSION.</b>

**F.No. 3/1/2011- P&P-II:** Staff Selection Commission will hold on Sunday, the 08.04.2012, an open competitive examination for recruitment to the post of Junior Engineer (Civil & Electrical ) in CPWD and Junior Engineer (Civil) in Department of Posts, Junior Engineer (Civil & Mechanical) in CWC and Farakka Barrage and Junior Engineer (Civil, Mechanical, Electrical and Quantity Surveying and Contracts) in MES, a Group 'B' Non-Gazetted, Non Ministerial post, classified as General Central Service (Technical) in the Pay Band of Rs.9300-34800/- plus Grade Pay Rs.4200/-, all over the country.

2. **VACANCIES / RESERVATION** : Firm number of vacancies will be determined in due course.

(i) **Tentative Vacancies:**

**CPWD : 192 for Junior Engineers(Civil) & 186 for Junior Engineers(Electrical)**

**CWC: 82 for Junior Engineers(Civil) & 23 for Junior Engineers(Mech)**

**MES: 155 for Junior Engineers(Civil) & 91 for Junior Engineers(Electrical/Mech)  
13 for JE(Quantity Surveying & Contracts)**

**Farakka Barrage: will be determined in due course.**

**Deptt. Of Post : will be determined in due course**

**The vacancy position may vary.**

(ii) Reservation for SC/ ST/ OBC/ ExS/ PH etc. categories is available as per extant Govt. Orders and as communicated by the departments reporting vacancies.

(iii) The posts carry All India Service Liability (AISL) i.e. the candidate, on selection, may be asked to serve anywhere in the country.

(iv) The posts have been identified suitable for the persons suffering from disabilities of forty percent and above of One Arm (OA), One Leg (OL), Both Legs (BL), Partially Deaf (PD) and Deaf (D).

3. **NATIONALITY / CITIZENSHIP**

A candidate must be either:

(a) a citizen of India, or

(b) a subject of Nepal, or

(c) a subject of Bhutan, or

(d) a Tibetan refugee who came over to India before the 1st January 1962 with the intention of permanently settling in India, or

(e) a person of Indian origin who has migrated from Pakistan, Burma, Sri Lanka, East African countries of Kenya, Uganda, the United Republic of Tanzania(Formerly Tanganyika and Zanzibar), Zambia, Malawi, Zaire, Ethiopia and 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 will be given only after the necessary eligibility certificate has been issued to him by the Government of India.

4(A). **AGE LIMIT** :

(i) 18-27 years for Junior Engineer (Civil & Electrical) in CPWD and Department of Posts

(ii) Not exceeding 30 years for Junior Engineer (Civil) and Junior Engineer (Electrical & Mechanical) in MES

(iii) Upto 32 years for Junior Engineers (Civil & Mechanical) in CWC and Farakka Barrage.

(iv) 18-27 Years for Junior Engineers(Quantity Surveying and Contract) in MES

**Note I :** As per extant Government Orders, the crucial date for age-limit is reckoned with reference to 01.01.2012.

**Note II :** Candidate should note that only the Date of Birth as recorded in the Matriculation/Secondary Examination Certificate or an equivalent certificate available on the date of submission of application will be accepted by the Commission for determining the Age eligibility and no subsequent request for its change will be considered or granted.

**Note-III:** Candidates are advised to opt only for such posts for which they are within prescribed age limits.

4.(B) Permissible relaxation of Upper age limit prescribed under para 4(A) above. Category Codes for claiming age relaxation as on date of reckoning:-

<b>Code No.</b>	<b>Category</b>	<b>Age-Relaxation Permissible beyond the Upper age limit</b>
01	SC/ST	5 years
02	OBC	3 years
03	PH (OH/HH)	10 years
04	PH(OH/HH) + OBC	13 years
05	PH(OH/HH) + SC/ST	15 years
06	Ex-Servicemen (Unreserved / General)	5 years
07	Ex-Servicemen (OBC)	8 years
08	Ex-Servicemen (SC/ ST)	10 years
12	Central Govt. Civilian Employees (General/Unreserved) who have rendered not less than 3 years regular and continuous service as on Closing date.	Upto 35 years for CPWD Upto 35 years for MES (Civil Electrical & Mechanical, upto 32 years for MES(QS&C) Upto 40 years for D/o Posts Upto 37 years for CWC and Farakka Barrage
13	Central Govt. Civilian Employees (OBC) who have rendered not less than 3 years regular and continuous service as on Closing date.	Upto 38 years for CPWD Upto 38 years for MES (Civil Electrical & Mechanical upto 35 years for MES(QS&C) Upto 43 years for D/o Posts Upto 40 years for CWC and Farakka Barrage
14	Central Govt. Civilian Employees ( SC/ST ) who have rendered not less than 3 years regular and continuous service as on Closing date	Upto 40 years for CPWD Upto 40 years for MES(Civil Electrical & Mechanical upto 37 years for MES(QS&C) Upto 45 years for D/o Posts Upto 42 years for CWC and Farakka Barrage
21	Candidates who had ordinarily been domiciled in the State of Jammu & Kashmir (Unreserved/General )	5 years
22	Candidates who had ordinarily been domiciled in the State of Jammu & Kashmir ( OBC )	8 years
23	Candidates who had ordinarily been domiciled in the State of Jammu & Kashmir (SC/ST)	10 years
27	Defence Personnel disabled in operation during hostilities with any foreign country or in a disturbed area and released as a consequence thereof (Unreserved/General)	3 years
28	Defence Personnel disabled in operation during hostilities with any foreign country or in a disturbed area and released as a consequence thereof ( OBC )	6 (3+3) years
29	Defence Personnel disabled in operation during hostilities with any foreign country or in a disturbed area and released as a consequence thereof ( SC/ST )	8 (3+5) years

NOTE-I : Ex-servicemen who have already secured employment in civil side under Central Government in Group 'C' & 'D' posts on regular basis after availing of the benefits of reservation given to ex-servicemen for their re-employment are NOT eligible for fee concession. However, they are eligible for age relaxation only.

NOTE-II : The period of "Call up Service" of an Ex-Serviceman in the Armed Forces shall also be treated as service rendered in the Armed Forces for purpose of age relaxation.

NOTE-III : The post of Junior Engineer being a Group 'B' post, there is no reservation for Ex-Servicemen category. However, benefit of age-relaxation will be admissible to Ex-Servicemen candidates, as per extant Govt. Orders.

EXPLANATION-I : An Ex-Serviceman means a person who has served in any rank whether as a combatant or non-combatant in the Regular Army, Navy, Air Force of the Indian Union, and

- (i) who retired from such service after earning his/her pension. This would also include persons who are retired/retire at their own request but after having earned their pension; or
- (ii) who has been released from such service on medical grounds attributable to military service/circumstances beyond his control and awarded medical or other disability pension; or
- (iii) who has been released, otherwise than on his own request from such service as a result of reduction in establishment; or
- (iv) who has been released from such service after completing the specific period of engagements, otherwise than at his own request or by way of dismissal or discharge on account of misconduct or inefficiency, and has been given a gratuity; and includes personnel of the Territorial Army of the following categories, namely:-
  - (a) Pension holders for continuous embodied service,
  - (b) Persons with disability attributable to military service; and
  - (c) Gallantry award winners.

EXPLANATION-II :

The persons serving in the Armed Forces of the Union, who on retirement from service, would come under the category of "ex-serviceman" may be permitted to apply for re-employment one year before the completion of the specified terms of engagement and avail themselves of all concessions available to ex-servicemen but shall not be permitted to leave the uniform until they complete the specified term of engagement in the Armed Forces of the Union.

NOTE-V: AGE CONCESSION IS NOT ADMISSIBLE TO SONS, DAUGHTERS AND DEPENDENTS OF EX-SERVICEMEN

**4 (C). PROCESS OF CERTIFICATION AND FORMAT OF CERTIFICATES:**

Candidates who wish to be considered against vacancies reserved or seek age-relaxation must submit requisite certificate from the competent authority, in the prescribed format whenever such certificates are sought by concerned Regional/Sub Regional Offices. Otherwise, their claim for SC/ ST/ OBC/ PH/ ExS status will not be entertained and their candidature/ applications will be considered under General (UR) category. The formats of the certificates are annexed. OBC certificate with creamy layer status issued by the competent authority as prescribed by DOPT in the prescribed proforma should have been obtained within three years before the closing date of receipt of application i.e. 10.2.2012. Certificates issued up to the last tier of examination i.e. interview will also be accepted by the Commission.

**NOTE I :** Candidates are warned that they may be permanently debarred from the examination conducted by the Commission in case they fraudulently claim SC/ST/OBC/ExS/PH status.

5. **MINIMUM ESSENTIAL EDUCATIONAL QUALIFICATIONS (As on normal closing date):**

S. No.	Post	Educational and Other Qualification
1	Junior Engineer (Civil & Electrical), CPWD	Diploma in Civil or Electrical or Mechanical Engineering from an institution recognized by the Central Government or equivalent qualification.
2	Junior Engineer (Civil & Electrical), Department of Posts	Three years Diploma or equivalent in Civil Engineering or Electrical Engineering from an institution recognized by the Central Government or State Government.
3	(a) Junior Engineer (Civil), MES  (b) Junior Engineer (Electrical & Mechanical), MES  (c) Junior Engineer(QS&C) MES	Degree in Civil Engineering from a recognised University  OR I) Three years Diploma in Civil Engineering from a recognised Institute or University or Board; and  (II) Two years experience in Planning, Execution and Maintenance of Civil Engineering works.  Degree in Electrical or Mechanical Engineering from a recognised University;  OR (I) Three years diploma in Electrical or Mechanical Engineering from a recognised Institute or University or Board; and (II) Two years experience in Planning, Execution and Maintenance of Electrical or Mechanical Engineering works. (i) 3 years Diploma in Civil engineering from a recognised institution/University/Board or equivalent;  OR (ii) Passed Intermediate examination in Building and Quantity Surveying Sub Div.II of the institute of Surveyors(India).
4	Junior Engineer (Civil & Mechanical), CWC and Farakka Barrage.	Degree or Diploma in Civil or Mechanical Engineering from a recognised University or Institution

**For list of equivalent qualifications as approved by CPWD/AICTE, refer to Annexure-IX.**

**NOTE-I:** As per Ministry of Human Resource Development Notification No. 44 dated 01.03.1995 published in Gazette of India edition dated 08.04.1995, the Degree obtained through open Universities/Distance Education Mode needs to be recognized by Distance Education Council, IGNOU. Accordingly, unless such Degrees had been recognized for the period when the candidates acquired the relevant qualification, they will not be accepted for the purpose of Educational Qualification.

**NOTE-II:** Candidates who have not acquired/will not acquire the educational qualification as on the closing date of receipt of application (10.02.2012) will not be eligible and need not apply.

**NOTE-III:** All candidates who are called for appearing at the Interview will be required to produce the relevant Certificates in Original such as Mark sheets, Provisional Degree/Diploma Certificate, etc. as proof of having acquired the minimum educational qualification on or before the closing date failing which the candidature of such candidate will be cancelled by the Commission.

**NOTE-IV:** ExS who have done various courses from Armed Forces which are certified by competent Authority that they are equivalent to Diploma in Civil/Mechanical/Electrical Engineering are eligible to appear in the Examination.

**6. MODE OF PAYMENT FEE PAYABLE Rs.100/- (Rupees One Hundred only):**

(i) For the candidates sending the application by post:

The candidates submitting Paper application should pay the fee by means of "Central Recruitment Fee Stamps (CRFS)" only. CRFS are available at the counter of all Departmental Post Offices of the country. Recruitment Fee Stamps should be pasted on the application form in the space earmarked for the purpose and got cancelled from the Counter of Post Office of issue with the date stamp of the Issuing Post Office in such a manner that the impression or the cancellation stamp partially overflows on the Application Form itself, taking care at the same time that the impression is clear and distinct to facilitate the identification of date and Post Office of issue at any subsequent stage. After getting the Recruitment Fee Stamps cancelled from the Post Office, the candidate must submit their application to the concerned Regional Office/Sub Regional Offices of the Commission in the usual manner after completing other formalities.

(ii) For the candidates submitting their applications on-line:

The candidates submitting their applications on-line should pay the requisite fee only through State Bank of India Challan or using on-line payment facility of State Bank of India.

**NOTE I:** Fee once paid will not be refunded under any circumstances.

**NOTE II:** Fee paid by modes other than CRFS for off-line applications and SBI in case of online application will not be accepted and the applications of such candidates will be rejected forthright and the payment made shall stand forfeited. Candidates submitting their application online shall make their payment through the State Bank of India as per instructions (Annexure-II B).

**NOTE III:** Candidates may please note that non-cancellation of stamps from the concerned Post Office in the manner indicated above, will lead to rejection of his/her application form. Therefore, it is in the interest of candidates that they get the CRFS cancelled from the concerned Post Office.

**7. CENTRES OF EXAMINATION:**

A candidate must indicate the centre in the Application Form in respect of the Examination. A candidate must submit his/her application only to the concerned Regional/Sub Regional Office of the Commission under whose jurisdiction the Centre selected by him / her falls. Application received in any other Regional/Sub Regional Office of the Commission will be rejected summarily.

The applications should be addressed to the Regional / Sub-Regional Offices of the Commission as indicated in the table below:-

S.No.	Centre of Examination & Centre Code	Address to which applications should be Sent
	2	3
1	Delhi-2201 , Jaipur-2405, Dehradun-2002	Regional Director (NR), Staff Selection Commission, Block No. 12, CGO Complex, Lodhi Road, New Delhi-110504.
2	Hyderabad-8002, Chennai-8201 Puducherry(8401)	Regional Director (SR), Staff Selection Commission, EVK Sampath Building, 2nd Floor, College Road, Chennai, Tamil Nadu-600006.
3	Kolkata-4410, Port Blair-4802, Gangtok-4001,Ranchi-4205, Bhubaneswar-4604	Regional Director (ER), Staff Selection Commission, Nizam Palace, 1 st M.S.O. Building (8 <sup>th</sup> Floor), 234/4 A. J. C. Bose Road, Kolkata, West Bengal – 700020
4.	Mumbai-7204, Nagpur-7205, Panaji-7801, Ahmedabad -7001	Regional Director (WR), Staff Selection Commission, Ist Floor, South Wing, Pratishta Bhawan, 101 Maharshi Karve Road, Mumbai Maharashtra - 408020.
5.	Allahabad-3003, Patna-3206, Lucknow-3010	Regional Director (CR), Staff Selection Commission, 8-AB, Beli Road, Allahabad, Uttar Pradesh – 211002.
6.	Guwahati (Dispur)-5105, Itanagar-5001, Imphal-5501, Shillong-5401, Aizwal-5701, Kohima-5302, Agartala-5601	Regional Director (NER), Staff Selection Commission, Rukmini Nagar, P.O. Assam Sachivalaya, Guwahati, Assam-781006.
7.	Bangaluru-9001, Thiruvananthapuram-9211, Kavaratti-9401	Regional Director (KKR), Staff Selection Commission, 1St Floor, "E" Wing, Kendriya Sadan, Koramangala, Bangalore, Karnataka-560034.
8.	Raipur-6204, Bhopal-6001	Dy. Director (MPR), Staff Selection Commission, "Nishant Villa" F - Jalvihar Colony, Raipur, Chhatisgarh-492001.
9.	Chandigarh-1601, Jammu-1004, Srinagar (J&K)-1007, Shimla-1203,	Dy. Director (NWR), Staff Selection Commission, Block No. 3, Ground Floor, Kendriya Sadan Sector-9, Chandigarh-167017.

**NOTE I:** No change of Centre of Examination will be allowed under any circumstances. Hence, the candidates should select the centres carefully and indicate the same correctly in their applications. The Commission considers only applications from those serving in Armed Forces or Central Armed Police Forces for change of centre, if they are posted out due to operational reasons.

**NOTE II:** The Commission reserves the right to cancel any Centre and ask the candidates of that centre to appear from another centre. Commission also reserves the right to divert candidates of any centre to some other Centre to take the examination.

## 8. **SCHEME OF EXAMINATION:**

The examination will be conducted in two stages:

- A. Written Test (500 marks)
- B. Interview (100 marks)

### **A. Written Test:**

Papers	Subject	Maximum Marks	Duration & Timings
Paper-I Objective type (OMR Answer Sheets will be provided for this Paper)	(i) General Intelligence & Reasoning	50	2 Hours
	(ii) General Awareness	50	[10.00 AM to 12.00 Noon]
	(iii) Part –A General Engineering (Civil & Structural) OR Part-B General Engineering (Electrical)  OR Part-C General Engineering (Mechanical)	100	
Paper-II Conventional Type	Part –A General Engineering (Civil & Structural) OR Part – B General Engineering (Electrical)  OR Part-C General Engineering (Mechanical)	300	2 Hours  [2.00 PM to 4.00 PM]

**NOTE-1:** In Paper-I and Paper-II for General Engineering, the candidate will be required to attempt only one part i.e. Part-A or Part-B or Part-C as per option given in the application form by the candidate. In other words, the candidates appearing for the post of Junior Engineer (Civil), Junior Engineer(Quantity Surveying & Contract) should attempt Part A (Civil & Structural) of Paper-I and Paper-II and the candidates appearing for the post of Junior Engineer (Electrical) should attempt Part-B (Electrical) or Part ‘C’(Mechanical) of Paper I and II and the candidates appearing for the post of Junior Engineer (Mechanical) should attempt Part C ( Mechanical) of Paper-I and Paper-II failing which he/she would be awarded ZERO marks.

**NOTE-2:** Candidates are allowed to bring their own Slide–Rule, Non Programmable Calculator, Logarithm Tables and Steam Table for Paper-II only. They are not allowed to use such aids for Paper-I.

**NOTE-3:** Paper-I will consist of Objective Type Multiple Choice questions only. Answer-sheets of Paper-II (Conventional Type) will be evaluated in respect of only those candidates who qualify in Paper-I at the standard as decided/fixed by the Commission at its discretion.



Note-4: Candidates are not permitted to use Mobile Phone or any other electronic / electrical device other than those specifically permitted in Note-2. Candidates must not, therefore, bring Mobile Phone or any other electronic /electrical device not specifically permitted inside the Examination premises. Possession of these items, whether in use or not, will be considered as “use of unfair means” in the Examination and appropriate action will be taken by the Commission against such candidates, as per extant policy of the Commission including but not limited to cancellation of candidature, debarment for a period of up to 5 years etc.

Note-5: There will be negative marking of 0.25 marks for each wrong answer in Paper-I. Candidates are, therefore, advised to keep this in mind while answering the questions.

Note-6: Discrepancies in Question Paper, if any may be brought to the notice of the Commission in writing within fifteen days of holding of the examination or after placement of answer keys on the website of the Commission whichever is later. Representation submitted thereafter will not be considered. Representations regarding the content of the Question Paper/answer keys should be addressed to Shri T.M.Skaria, Deputy Secretary in the Commission.

**B. Personality Test (Interview):**

**100 marks**

NOTE-I: Only those candidates who secure at least the minimum qualifying marks in the written examination as may be fixed by the Commission at its discretion, will be eligible to appear at the Interview. The interview will be held at places as may be decided by the Commission.

NOTE-II: SC/ST candidates called for interview will be paid TA as per Government Orders. However no TA is payable to any candidate for appearing in the written examination.

NOTE-III: **Canvassing in any form will disqualify the candidate.**

9. **SYLLABUS**

The standard of the questions in Engineering subjects will be approximately of the level of Diploma in Engineering (Civil/ Electrical/ Mechanical) from a recognized Institute, Board or University and recognized by All India Board of Technical Education. All the questions will be set in SI units. The details of the syllabus are given below:

**Paper-I**

(i) **General Intelligence & Reasoning:** The Syllabus for General Intelligence would include questions of both verbal and non-verbal type. The test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgement, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationships, arithmetical computations and other analytical functions.

(ii) **General Awareness:** Questions will be aimed at testing the candidate's general awareness of the environment around him/her and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic

Scene, General Polity and Scientific Research, etc. These questions will be such that they do not require a special study of any discipline.

(iii) **General Engineering (Civil and Structural), (Electrical & Mechanical):**

**Civil Engineering Part-A**

Building Materials, Estimating, Costing and Valuation, Surveying, Soil Mechanics, Hydraulics, Irrigation Engineering, Transportation Engineering, Environmental Engineering.

**Structural Engineering** – Theory of Structures, Concrete Technology, RCC Design, Steel Design.

**Electrical Engineering Part-B.**

Basic concepts, Circuit law, Magnetic Circuit, AC Fundamentals, Measurement and Measuring instruments, Electrical Machines, Fractional Kilowatt Motors and single phase induction Motors, Synchronous Machines, Generation, Transmission and Distribution, Estimation and Costing, Utilization and Electrical Energy, Basic Electronics.

**Mechanical Engineering Part-C** – Theory of Machines and Machine Design, Engineering Mechanics and Strength of Materials,

Properties of Pure Substances, 1<sup>st</sup> Law of Thermodynamics, 2<sup>nd</sup> Law of Thermodynamics, Air standard Cycles for IC Engines, IC Engine Performance, IC Engines Combustion, IC Engine Cooling & Lubrication, Rankine cycle of System, Boilers, Classification, Specification, Fitting & Accessories, Air Compressors & their cycles, Refrigeration cycles Principle of Refrigeration Plant, Nozzles & Steam Turbines.

Properties & Classification of Fluids, Fluid Statics, Measurement of Fluid Pressure, Fluid kinematics, Dynamics of Ideal fluids, Measurement of Flow rate basic principles, Hydraulic Turbines, Centrifugal Pumps, Classification of steels.

**Paper II**

**Civil & Structural Engineering Part-A**

**Civil Engineering**

**Building Materials** : Physical and Chemical properties, classification, standard tests, uses and manufacture/quarrying of materials e.g. building stones, silicate based materials, cement (Portland), asbestos products, timber and wood based products, laminates, bituminous materials, paints, varnishes.

**Estimating, Costing and Valuation** : estimate, glossary of technical terms, analysis of rates, methods and unit of measurement, Items of work – earthwork, Brick work (Modular & Traditional bricks), RCC work, Shuttering, Timber work, Painting, Flooring, Plastering. Boundary wall, Brick building, Water Tank, Septic tank, Bar bending schedule, Centre line method, Mid-section formula, Trapezoidal formula, Simpson's rule. Cost estimate of Septic tank, flexible pavements, Tube well, isolates and combined footings, Steel Truss, Piles and pile-caps. Valuation – Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolescence, methods of valuation.

**Surveying** : Principles of surveying, measurement of distance, chain surveying, working of prismatic compass, compass traversing, bearings, local attraction, plane table surveying, theodolite traversing, adjustment of theodolite, Levelling, Definition of terms used in levelling, contouring, curvature and refraction corrections, temporary and permanent adjustments of dumpy level, methods of contouring, uses of contour map, tachometric survey, curve setting, earth work calculation, advanced surveying equipment.

**Soil Mechanics** : Origin of soil, phase diagram, Definitions-void ratio, porosity, degree of saturation, water content, specific gravity of soil grains, unit weights, density index and interrelationship of different parameters, Grain size distribution curves and their uses. Index properties of soils, Atterberg's limits, ISI soil classification and plasticity chart. Permeability of soil, coefficient of permeability, determination of coefficient of permeability, Unconfined and confined aquifers, effective stress, quick sand, consolidation of soils, Principles of consolidation, degree of consolidation, pre-consolidation pressure, normally consolidated soil, e-log p curve, computation of ultimate settlement. Shear strength of soils, direct shear test, Vane shear test, Triaxial test. Soil compaction, Laboratory compaction test, Maximum dry density and optimum moisture content, earth pressure theories, active and passive earth pressures, Bearing capacity of soils, plate load test, standard penetration test.

**Hydraulics** : Fluid properties, hydrostatics, measurements of flow, Bernoulli's theorem and its application, flow through pipes, flow in open channels, weirs, flumes, spillways, pumps and turbines.

**Irrigation Engineering** : Definition, necessity, benefits, 2II effects of irrigation, types and methods of irrigation, Hydrology – Measurement of rainfall, run off coefficient, rain gauge, losses from precipitation – evaporation, infiltration, etc. Water requirement of crops, duty, delta and base period, Kharif and Rabi Crops, Command area, Time factor, Crop ratio, Overlap allowance, Irrigation efficiencies. Different type of canals, types of canal irrigation, loss of water in canals. Canal lining – types and advantages. Shallow and deep to wells, yield from a well. Weir and barrage, Failure of weirs and permeable foundation, Slit and Scour, Kennedy's theory of critical velocity. Lacey's theory of uniform flow. Definition of flood, causes and effects, methods of flood control, water logging, preventive measure. Land reclamation, Characteristics of affecting fertility of soils, purposes, methods, description of land and reclamation processes. Major irrigation projects in India.

**Transportation Engineering** : Highway Engineering – cross sectional elements, geometric design, types of pavements, pavement materials – aggregates and bitumen, different tests, Design of flexible and rigid pavements – Water Bound Macadam (WBM) and Wet Mix Macadam (WMM), Gravel Road, Bituminous construction, Rigid pavement joint, pavement maintenance, Highway drainage, Railway Engineering- Components of permanent way – sleepers, ballast, fixtures and fastening, track geometry, points and crossings, track junction, stations and yards. Traffic Engineering – Different traffic survey, speed-flow-density and their interrelationships, intersections and interchanges, traffic signals, traffic operation, traffic signs and markings, road safety.

**Environmental Engineering** : Quality of water, source of water supply, purification of water, distribution of water, need of sanitation, sewerage systems, circular sewer, oval sewer, sewer appurtenances, sewage treatments. Surface water drainage. Solid waste management – types, effects, engineered management system. Air pollution – pollutants, causes, effects, control. Noise pollution – cause, health effects, control.

## **Structural Engineering**

**Theory of structures :** Elasticity constants, types of beams – determinate and indeterminate, bending moment and shear force diagrams of simply supported, cantilever and over hanging beams. Moment of area and moment of inertia for rectangular & circular sections, bending moment and shear stress for tee, channel and compound sections, chimneys, dams and retaining walls, eccentric loads, slope deflection of simply supported and cantilever beams, critical load and columns, Torsion of circular section.

**Concrete Technology :** Properties, Advantages and uses of concrete, cement aggregates, importance of water quality, water cement ratio, workability, mix design, storage, batching, mixing, placement, compaction, finishing and curing of concrete, quality control of concrete, hot weather and cold weather concreting, repair and maintenance of concrete structures.

**RCC Design :** RCC beams-flexural strength, shear strength, bond strength, design of singly reinforced and double reinforced beams, cantilever beams. T-beams, lintels. One way and two way slabs, isolated footings. Reinforced brick works, columns, staircases, retaining wall, water tanks (RCC design questions may be based on both Limit State and Working Stress methods).

**Steel Design :** Steel design and construction of steel columns, beams roof trusses plate girders.

## **Electrical Engineering Part-B**

**Basic concepts :** Concepts of resistance, inductance, capacitance, and various factors affecting them. Concepts of current, voltage, power, energy and their units.

**Circuit law :** Kirchoff's law, Simple Circuit solution using network theorems.

**Magnetic Circuit :** Concepts of flux, mmf, reluctance, Different kinds of magnetic materials, Magnetic calculations for conductors of different configuration e.g. straight, circular, solenoidal, etc. Electromagnetic induction, self and mutual induction.

**AC Fundamentals :** Instantaneous, peak, R.M.S. and average values of alternating waves, Representation of sinusoidal wave form, simple series and parallel AC Circuits consisting of R,L. and C, Resonance, Tank Circuit. Poly Phase system – star and delta connection, 3 phase power, DC and sinusoidal response of R-L and R-C circuit.

**Measurement and measuring instruments :** Measurement of power (1 phase and 3 phase, both active and re-active) and energy, 2 wattmeter method of 3 phase power measurement. Measurement of frequency and phase angle. Ammeter and voltmeter (both moving coil and moving iron type), extension of range wattmeter, Multimeters, Megger, Energy meter AC Bridges. Use of CRO, Signal Generator, CT, PT and their uses. Earth Fault detection.

**Electrical Machines :** (a) D.C. Machine – Construction, Basic Principles of D.C. motors and generators, their characteristics, speed control and starting of D.C. Motors. Method of braking motor, Losses and efficiency of D.C. Machines. (b) 1 phase and 3 phase transformers – Construction, Principles of operation, equivalent circuit, voltage regulation, O.C. and S.C. Tests, Losses and efficiency. Effect of voltage, frequency and wave form on losses. Parallel operation of 1 phase /3 phase transformers. Auto transformers. (c) 3 phase induction motors, rotating magnetic field, principle of operation, equivalent circuit, torque-speed characteristics, starting and speed control of 3 phase induction motors. Methods of braking, effect of voltage and frequency variation on torque speed characteristics.

**Fractional Kilowatt Motors and Single Phase Induction Motors** : Characteristics and applications.

**Synchronous Machines** - Generation of 3-phase e.m.f. armature reaction, voltage regulation, parallel operation of two alternators, synchronizing, control of active and reactive power. Starting and applications of synchronous motors.

**Generation, Transmission and Distribution** – Different types of power stations, Load factor, diversity factor, demand factor, cost of generation, inter-connection of power stations. Power factor improvement, various types of tariffs, types of faults, short circuit current for symmetrical faults. Switchgears – rating of circuit breakers, Principles of arc extinction by oil and air, H.R.C. Fuses, Protection against earth leakage / over current, etc. Buchholz relay, Merz-Price system of protection of generators & transformers, protection of feeders and bus bars. Lightning arresters, various transmission and distribution system, comparison of conductor materials, efficiency of different system. Cable – Different type of cables, cable rating and derating factor.

**Estimation and costing** : Estimation of lighting scheme, electric installation of machines and relevant IE rules. Earthing practices and IE Rules.

**Utilization of Electrical Energy** : Illumination, Electric heating, Electric welding, Electroplating, Electric drives and motors.

**Basic Electronics** : Working of various electronic devices e.g. P N Junction diodes, Transistors (NPN and PNP type), BJT and JFET. Simple circuits using these devices.

### Mechanical Engineering Part- C

#### Theory of Machines and Machine Design

Concept of simple machine, Four bar linkage and link motion, Flywheels and fluctuation of energy, Power transmission by belts – V-belts and Flat belts, Clutches – Plate and Conical clutch, Gears – Type of gears, gear profile and gear ratio calculation, Governors – Principles and classification, Riveted joint, Cams, Bearings, Friction in collars and pivots.

#### Engineering Mechanics and Strength of Materials

Equilibrium of Forces, Law of motion, Friction, Concepts of stress and strain, Elastic limit and elastic constants, Bending moments and shear force diagram, Stress in composite bars, Torsion of circular shafts, Bucking of columns – Euler's and Rankin's theories, Thin walled pressure vessels.

#### Thermal Engineering

**Properties of Pure Substances** : p-v & P-T diagrams of pure substance like H<sub>2</sub>O, Introduction of steam table with respect to steam generation process; definition of saturation, wet & superheated status. Definition of dryness fraction of steam, degree of superheat of steam. h-s chart of steam (Mollier's Chart).

**1<sup>st</sup> Law of Thermodynamics** : Definition of stored energy & internal energy, 1<sup>st</sup> Law of Thermodynamics of cyclic process, Non Flow Energy Equation, Flow Energy & Definition of Enthalpy, Conditions for Steady State Steady Flow; Steady State Steady Flow Energy Equation.

**2<sup>nd</sup> Law of Thermodynamics** : Definition of Sink, Source Reservoir of Heat, Heat Engine, Heat Pump & Refrigerator; Thermal Efficiency of Heat Engines & co-efficient of performance of Refrigerators, Kelvin – Planck & Clausius Statements of 2<sup>nd</sup> Law of Thermodynamics, Absolute or Thermodynamic Scale of temperature, Clausius Integral, Entropy, Entropy change calculation of ideal gas processes. Carnot Cycle & Carnot Efficiency, PMM-2; definition & its impossibility.

**Air standard Cycles for IC engines** : Otto cycle; plot on P-V, T-S Planes; Thermal Efficiency, Diesel Cycle; Plot on P-V, T-S planes; Thermal efficiency.

**IC Engine Performance, IC Engine Combustion, IC Engine Cooling & Lubrication.**

**Rankine cycle of steam** : Simple Rankine cycle plot on P-V, T-S, h-s planes, Rankine cycle efficiency with & without pump work.

**Boilers; Classification; Specification; Fittings & Accessories** : Fire Tube & Water Tube Boilers.

**Air Compressors & their cycles; Refrigeration cycles; Principle of a Refrigeration Plant; Nozzles & Steam Turbines**

### Fluid Mechanics & Machinery

**Properties & Classification of Fluid** : ideal & real fluids, Newton's law of viscosity, Newtonian and Non-Newtonian fluids, compressible and incompressible fluids.

**Fluid Statics** : Pressure at a point.

**Measurement of Fluid Pressure** : Manometers, U-tube, Inclined tube.

**Fluid Kinematics** : Stream line, laminar & turbulent flow, external & internal flow, continuity equation.

**Dynamics of ideal fluids** : Bernoulli's equation, Total head; Velocity head; Pressure head; Application of Bernoulli's equation.

**Measurement of Flow rate Basic Principles** : Venturimeter, Pilot tube, Orifice meter.

**Hydraulic Turbines** : Classifications, Principles.

**Centrifugal Pumps** : Classifications, Principles, Performance.

### Production Engineering

**Classification of Steels** : mild steel & alloy steel, Heat treatment of steel, Welding – Arc Welding, Gas Welding, Resistance Welding, Special Welding Techniques i.e. TIG, MIG, etc. (Brazing & Soldering), Welding Defects & Testing; NDT, Foundry & Casting – methods, defects, different casting processes, Forging, Extrusion, etc, Metal cutting principles, cutting tools, Basic Principles of machining with (i) Lathe (ii) Milling (iii) Drilling (iv) Shaping (v) Grinding, Machines, tools & manufacturing processes.

10. **GENERAL INSTRUCTIONS TO BE COMPLIED BY THE CANDIDATES IN THE WRITTEN EXAMINATION:**

- (i) Candidates must write the papers/indicate the answers in their own hand.
- (ii) Candidates are not permitted to use calculators and other electronic gadgets except as specified in the Notice. They should not, therefore, bring the same inside the Examination Premises / Venue for papers for which their use is not permitted.
- (iii) If any candidate is found to possess mobile phones or any other means of wireless communication in the working or switched off mode, his/her candidature shall be cancelled forthwith.
- (iv) Wherever applicable, the candidates must indicate /write the answer either in Hindi or in English. If answers are indicated/written partly in Hindi and partly in English and vice versa, the Answer script will not be evaluated and the candidate will be awarded zero marks.
- (v) In the question papers, wherever necessary, the Metric systems of weights and measures only will be used.
- (vi) OMR Type of Answer Sheets will be supplied by the Commission to candidates for recording their answers of Multiple Choice Objective Type Questions. Candidates are advised to read very carefully, the instructions, placed on the Commission's website(Candidate's Corner) in their own interest. Model OMR sheet is also provided on the website to enable the candidates to practice proper marking of the answers.

**(a) PART A AND PART B OF OMR ANSWER SHEET TO BE FILLED IN BLACK BALL POINT PEN ONLY.**

(b) Candidate should write his/her name, Roll Number, Ticket Number, Name of the Examination as mentioned in Admission Certificate, Date of birth and Test Form Number correctly, in the relevant places in OMR Answer Sheet. Answer Sheet not bearing candidate's Name, Roll Number, Ticket Number, Test Form No. signature and left hand thumb impression or in which such details have not been properly shaded will not be evaluated and 'Zero' marks will be awarded to them. If any candidate belonging to reserved category does not write and shade their category code properly, they will be treated as belonging to UR category.

11. **MODE OF SELECTION:**

Candidates will be shortlisted for the Interview on the basis of their performance in the Written Examination. Candidates who qualify for Interview will be recommended for appointment by the Commission on the basis of their performance in the Written Examination and Interview.

Provided that SC, ST, OBC and PH (OH/HH) candidates, who are selected on their own merit without relaxed standards, along with candidates belonging to other communities, will not be adjusted against the reserved share of vacancies. Such SC, ST, OBC and PH candidates will be accommodated against the general/unreserved vacancies as per their position in the overall Merit List. The reserved vacancies will be filled up separately from amongst the eligible SCs, STs, OBCs and PH candidates which will thus comprise of SC, ST, OBC and PH candidates who are lower in merit than the last general candidate on merit list of unreserved category but otherwise found suitable for appointment even by relaxed standard. A Physically Handicapped category candidate who qualifies on the basis of relaxed standards viz., age limit, experience or qualifications, permitted number of chances in written examination, extended zone of consideration, etc. will be counted against reserved vacancies and not against general vacancies subject to fitness of such candidate for selection. Such candidates may also be

recommended at the relaxed standards to the extent the number of vacancies reserved for them, to make up for the deficiency in the reserved quota, irrespective of their rank in the order of merit.

Success in the examination confers no right of appointment unless government is satisfied after such enquiry as may be considered necessary that the candidate is suitable in all respects of appointment to the service/post.

**NOTE-I:** 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 will be purely provisional, subject to their satisfying the prescribed eligibility conditions. If, on verification, at any time before or after the written examination and skill test, it is found that they do not fulfil any of the eligibility conditions, their candidature for the examination will be cancelled by the Commission.

**NOTE-II:** Candidates, who are appointed on the basis of this examination, shall be on probation for a period of two years and during the period of probation, the candidates would be required to undergo such training or pass such examinations as prescribed by the Controlling Authority. On successful completion of the period of probation, the candidates shall, if considered fit for permanent appointment, be confirmed to their post by the Controlling Authority.

#### 12. **RESOLUTION OF TIE CASES**

In cases where more than one candidate secure the equal aggregates marks, tie will be resolved by applying the following methods one after another:-

- (i) Total marks in written examination.
- (ii) Marks in Paper-II.
- (iii) Marks in Paper-I.
- (iv) Date of birth, with older candidates placed higher.
- (v) Alphabetical order in the first names of the candidates appear.

#### 13. **HOW TO APPLY**

Applications must be submitted only in the prescribed format (Annexure-I) On-line or by post. For detailed instructions relating to the application form and how the application is to be submitted, Annexure - II A or Annexure - II B, for postal applications and on-line applications respectively, may be referred to.

#### 14. **Preference**

##### **(A): Preferences for Departments/Offices**

A candidate is required to indicate at Sl. No. 13.2 in his/her Application Form, name of Department/Office i.e. CPWD, MES, D/o Posts or others, for which he/she would like to be considered for FINAL ALLOTMENT in order of preferences in case he/she is recommended by the Staff Selection Commission. Allocation of Department/Offices to the selected candidates will be made strictly keeping in view their position in the merit list and the order of preference, subject to number of vacancies available in that Department/Office.

##### **(B): Preference of Region for CPWD& MES**

Candidates selected for Interview on the basis of their performance in the written examination may be required to give preference of Regions in the event of their selection for CPWD. Actual



placement will be done by the User Department as per policy of that Department and will depend on availability of vacancies in various regions.

15. **ADMISSION TO THE EXAMINATION**

All candidates who apply in response to this advertisement by the CLOSING DATE will be assigned Roll numbers. These will be communicated to them or placed on the website of the concerned Regional Office at least two weeks before the date of the examination. A candidate must write his/her Roll number along with his/her name, date of birth and name of the examination while addressing any communication to the Commission. Communication from the candidate not furnishing these particulars shall not be entertained.

Admission Certificates (ACs) for the Examination indicating the time table and also venues of examination for each candidate will be issued to all applicants about two weeks before the date of examination. IF ANY CANDIDATE DOES NOT RECEIVE ADMISSION CERTIFICATE FOR THE EXAMINATION ONE WEEK BEFORE THE DATE OF EXAMINATION, HE/SHE MUST IMMEDIATELY CONTACT THE CONCERNED REGIONAL/SUB REGIONAL OFFICE (S) OF THE COMMISSION WITH PROOF OF HAVING SUBMITTED HIS/HER APPLICATION. (In case of Applications submitted under Certificate of Posting, the Date-Stamp of the Post-Office concerned should be clearly legible). FAILURE TO DO SO WILL DEPRIVE HIM/HER OF ANY CLAIM FOR CONSIDERATION. CANDIDATES ALSO HAVE THE OPTION TO DOWNLOAD THE ADMISSION CERTIFICATES FROM THE CONCERNED REGIONAL/SUB REGIONAL OFFICES WEBSITE. SUCH FACILITY WILL BE AVAILABLE AT LEAST TWO WEEKS BEFORE THE EXAMINATION.

Candidates who apply on-line but are unable to download their Admission Certificates or do not receive their Admission Certificates at least one week before the date of the examination should contact the concerned Regional Office with details such as Registration ID, Transaction ID of SBI, copy of challan, etc. for obtaining the Admission Certificates. Details of rectifiable deficiency, if any, may also be placed on the Commission's website (<http://ssc.nic.in>) about two weeks before the examination.

16. **COMMISSION'S DECISION FINAL**

The decision of the Commission in all matters relating to eligibility, acceptance or rejection of the applications, penalty for false information, mode of selection, conduct of examination(s) and interviews, allotment of examination centres, selection and allotment of posts/organizations to selected candidates will be final and binding on the candidates and no enquiry/correspondence will be entertained in this regard.

17. **COURTS JURISDICTION**

Any dispute in regard to this recruitment will be subject to courts/tribunals having jurisdiction over the Headquarter of concerned Regional/Sub-Regional Office of the SSC where the candidate has submitted his/her application.

18. **For detailed instructions relating to Application form, instructions for filling up the application form and for on-line payment/submission of application, candidates are advised to refer Annexures-I, II A and II B.**

**BROCHURE****INSTRUCTIONS FOR FILLING UP THE APPLICATION**

I. The Commission uses standard application form for all its examinations. Therefore, please read the instructions given in the Notice of Examination and also given below carefully before filling up the application form, in your own interest.

II. Use only blue/black ball pen to write in the boxes, i.e.,

III. Instructions have been given for most items in the application itself which should be gone through carefully before filling up the boxes. For items for which instructions are not available, further instructions given below may be gone through carefully.

IV. Please go through the instructions given below for filling up each item numbered in the application form:-

**1. Name of the Examination Centre and 2. Centre Codes**

Refer to para-7 of the Notice of the Examination.

**12.1. Code for seeking age relaxation.**

Refer to para 4 B of the Notice of the Examination.

**13.1 Preference of Posts:**

You are advised to opt only for such posts for which you have the required qualification.

**13.2 Preference for Departments**

You are advised to be careful in exercising your preference as in the event of your getting selected, you will be considered for the Departments in the order of your merit for each post.

**14. Candidates should indicate whether they belong to one of the minority communities notified by Govt. namely Muslims, Christians, Sikhs, Buddhists, or Zoroastrians (Parsis).**

**17. Educational Qualification and Subject Code:** See Annexure – VIII

Use 'Others' if any particular Educational Qualification or Subject is not assigned a code.

**19. Address for communication**

Write your complete communication address including your Name in English in capital letters or in Hindi with blue/black ball pen. Do not forget to write 6 digits PIN in the boxes.

As the Commission often communicates with the candidates through e-mail/SMS, you are advised to furnish valid e-mail id/mobile phone number, in your own interest.

**20. Photograph**

Paste your recent photograph of size 4cm x 5cm. Do not staple and do not get the photo attested. Please note that your application shall be rejected summarily without photograph.

**20-A Roll number**

Box for Roll Number to be left unfilled (blank) by the candidate.

**21. Signature of Candidate (Wherever required)**

Please sign in running hand. Signature in capital letters of English shall not be accepted and your application shall be summarily rejected. Unsigned application shall also be rejected.

**Procedure for Online Submission of Application**

On-line application will be available as below:-

**Part-I Registration: Up to 5.00 PM on 08-02-2012.**  
**Part-II Registration: Up to 5.00 PM on 10-02-2012.**

2. The online submission of the application may be made at website [www.ssconline.nic.in](http://www.ssconline.nic.in) or <http://www.sscregistration.sifyitest.com>. Candidate should read the instructions in this Notice carefully before making any entry or selecting options. Candidate should supply all the required details while filling up the online form. Mandatory fields are marked with \* (asterisk) sign. The filling of online application contains two parts:

Part I Registration  
Part II Registration

3. In Part I registration, candidate will have to fill basic information. On submission of details, candidate shall be prompted to check the details and make any correction in the application.

4. Candidate should press “I agree” button after declaration once after he/she finds that information supplied by him/her is in order and no correction is required. Thereafter no correction/modification etc. shall be allowed.

5. Then a page with Registration No. shall be generated. Note down registration number or take out the print out of the page. The application procedure is incomplete without part II registration. Part II registration requires filling of payment details, uploading of photograph and scanned signature. Candidates may note that the Registration number given by the Commission and Transaction ID of the Bank should be properly entered in the relevant space, failing which it will not be possible to link the payment with Part I registration. On-line application will be complete only if scanned signature and photo are uploaded as per instructions.

6. Candidates who have to pay application fee can pay fee online through SBI net banking or cash through SBI bank challan. The facility of online payment is currently not available on <http://www.sscregistration.sifyitest.com>.

7. To pay fee in cash, candidate should take print-out of challan generated online after completion of part I registration. Deposit the requisite fee in pay branch of State Bank of India and then continue with the Part II registration.

8. Those who want to pay online through SBI net banking, can go directly to part II registration after completion of part I. Candidate will have to supply registration number and date of birth to continue to Part II registration.

9. As approval of the Controller General of Accounts, Ministry of Finance, is awaited for use of credit cards/ debit cards, since December 2009, payment through these modes will not be available.

10. Those who are exempted from payment of fee can skip steps 6 to 8.

11. Then upload a recently taken scanned photograph in 8 – bit JPG format. The digital size of the file must be of resolution 100 pixel widths by 120 pixels height.

12. Then upload your scanned signature in 8 – bit JPG format. The digital size of the file must be of resolution 140 pixel width by 60 pixels height.

13. Candidates are advised to go through the instructions carefully before filling up the application form.

14. Request for change/correction in any particulars in the Application Form shall not be entertained under any circumstances. The Staff Selection Commission will not be responsible for any consequences arising out of non acceptance of any correction/addition/deletion in any particular filled in application form whatever the reasons may be.

**ANNEXURE-III**

**FORM OF CERTIFICATE TO BE SUBMITTED BY CENTRAL GOVERNMENT CIVILIAN EMPLOYEES SEEKING AGE-RELAXATION**

(To be filled by the Head of the Office or Department in which the candidate is working).

(Please see Para 4(B) of the Notice)

It is certified that \*Shri/Smt./Km. \_\_\_\_\_ is a Central Government Civilian employee holding the post of \_\_\_\_\_ in the pay scale of Rs. \_\_\_\_\_ with 3 years regular service in the grade.

There is no objection to his appearing for the Junior Engineers(Civil, Electrical etc.) Examination 2012 and/or interview cum personality test of the Examination.

Signature \_\_\_\_\_

Name \_\_\_\_\_

Office seal

Place:

Date :

(\*Please delete the words which are not applicable.)

**ANNEXURE- IV**

**Form of Certificate for serving Defence Personnel**

I hereby certify that, according to the information available with me (No.)

\_\_\_\_\_ (Rank) \_\_\_\_\_ (Name)

\_\_\_\_\_ is due to complete the specified term of his engagement with the Armed Forces on the (Date) \_\_\_\_\_.

(Signature of Commanding Officer)

Office Seal:

Place:

Date:

**FORMAT FOR SC/ST CERTIFICATE**

A candidate who claims to belong to one of the Scheduled Caste or the Scheduled Tribes should submit in support of his claim an attested/certified copy of a certificate in the form given below, from the District Officer or the sub-Divisional Officer or any other officer as indicated below of the District in which his parents (or surviving parent) ordinarily reside who has been designated by the State Government concerned as competent to issue such a certificate. If both his parents are dead, the officer signing the certificate should be of the district in which the candidate himself ordinarily resides otherwise than for the purpose of his own education. Wherever photograph is an integral part of the certificate, the Commission would accept only attested photocopies of such certificates and not any other attested or true copy.

(The format of the certificate to be produced by Scheduled Castes and Scheduled Tribes candidates applying for appointment to posts under Government of India)

This is to certify that Shri/Shrimati/Kumari\* \_\_\_\_\_ son/daughter of \_\_\_\_\_ of village/town/\*in District/ Division\* \_\_\_\_\_ of the State/Union Territory\* \_\_\_\_\_ belongs to the Caste/Tribe \_\_\_\_\_ which is recognized as a Scheduled Castes/Scheduled Tribes\* under:-

The Constitution (Scheduled Castes) order, 1950 \_\_\_\_\_

The Constitution (Scheduled Tribes) order, 1950 \_\_\_\_\_

The Constitution (Scheduled Castes) Union Territories order, 1951 \* \_\_\_\_\_

The Constitution (Scheduled Tribes) Union Territories Order, 1951\* \_\_\_\_\_

As amended by the Scheduled Castes and Scheduled Tribes Lists(Modification) order, 1956, the Bombay Reorganization Act, 1960 & the Punjab Reorganization Act, 1966, the State of Himachal Pradesh Act 1970, the North-Eastern Area(Reorganization) Act, 1971 and the Scheduled Castes and Scheduled Tribes Order(Amendment) Act, 1976.

The Constitution (Jammu & Kashmir) Scheduled Castes Order, 1956 \_\_\_\_\_

The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 1959 as amended by the Scheduled Castes and Scheduled Tribes order (Amendment Act), 1976\*.

The Constitution (Dadra and Nagar Haveli) Scheduled Castes order 1962.

The Constitution (Dadra and Nagar Haveli) Scheduled Tribes Order 1962@.

The Constitution (Pondicherry) Scheduled Castes Order 1964@

The Constitution (Scheduled Tribes) (Uttar Pradesh) Order, 1967 @

The Constitution (Goa, Daman & Diu) Scheduled Castes Order, 1968@

The Constitution (Goa, Daman & Diu) Scheduled Tribes Order 1968 @

The Constitution (Nagaland) Scheduled Tribes Order, 1970 @

The Constitution (Sikkim) Scheduled Castes Order 1978@

The Constitution (Sikkim) Scheduled Tribes Order 1978@

The Constitution (Jammu & Kashmir) Scheduled Tribes Order 1989@

The Constitution (SC) orders (Amendment) Act, 1990@  
The Constitution (ST) orders (Amendment) Ordinance 1991@  
The Constitution (ST) orders (Second Amendment) Act, 991@  
The Constitution (ST) orders (Amendment) Ordinance 1996

%2. Applicable in the case of Scheduled Castes, Scheduled Tribes persons who have migrated from one State/Union Territory Administration.

This certificate is issued on the basis of the Scheduled Castes/ Scheduled tribes certificate issued to Shri/Shrimati \_\_\_\_\_ Father/mother \_\_\_\_\_ of Shri/Srimati/Kumari\* \_\_\_\_\_ of village/town\* \_\_\_\_\_ in District/Division\* \_\_\_\_\_ of the State/ Union Territory\* \_\_\_\_\_ who belong to the \_\_\_\_\_ Caste/Tribe which is recognized as a Scheduled Caste/Scheduled Tribe in the State /Union Territory\* issued by the \_\_\_\_\_ dated \_\_\_\_\_.

%3. Shri/Shrimati/Kumari and /or \* his/ her family ordinarily reside(s) in village/ town\* \_\_\_\_\_ of \_\_\_\_\_ District/Division\* \_\_\_\_\_ of the State/ Union Territory of \_\_\_\_\_

Signature \_\_\_\_\_ \*\*  
Designation \_\_\_\_\_  
(with seal of office)

Place \_\_\_\_\_  
Date \_\_\_\_\_

- \* Please delete the words which are not applicable
- @ Please quote specific presidential order
- % Delete the paragraph which is not applicable.

NOTE: The term ordinarily reside(s) used here will have the same meaning as in section 20 of the Representation of the People Act, 1950.

\*\* List of authorities empowered to issue Caste/Tribe Certificates:

- (i) District Magistrate/ Additional District Magistrate/ Collector/ Deputy Commissioner/ Additional Deputy Commissioner/ Dy.Collector/ Ist Class Stipendiary Magistrate/Sub-Divisional Magistrate/Extra-Assistant Commissioner/Taluka Magistrate/Executive Magistrate.
- (ii) Chief Presidency Magistrate/Additional Chief Presidency Magistrate/Presidency Magistrate.
- (iii) Revenue Officers not below the rank of Tehsildar.
- (iv) Sub-Divisional Officers of the area where the candidate and/or his family normally resides.

NOTE: ST candidates belonging to Tamil Nadu state should submit caste certificate ONLY FROM THE REVENUE DIVISIONAL OFFICER.

ANNEXURE-VI

**(FORMAT OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES  
APPLYING FOR APPOINTMENT TO POSTS UNDER THE GOVERNMENT OF INDIA)**

This is to certify that \_\_\_\_\_ son/ daughter of  
\_\_\_\_\_ of village \_\_\_\_\_  
\_\_\_\_\_ District/Division \_\_\_\_\_ in the  
\_\_\_\_\_ State belongs to the \_\_\_\_\_ Community which  
is recognized as a backward class under:

- i) Resolution No. 12011/68/93-BCC dated the 10th September, 1993, published in the Gazette of India Extraordinary – Part I, Section I, No. 186 dated 13th September, 1993.
- ii) Resolution No. 12011/9/94-BCC, dated 19.10.1994 published in Gazette of India extraordinary Part I Section I No. 163, dated 20th October, 1994.
- iii) Resolution No. 12011/7/95-BCC dated the 24th May 1995 Published in the Gazette of India extraordinary Part-I Section I No. 88 dated 25th May, 1995.
- iv) Resolution No.12011/96/94-BCC dated 9th March, 1996.
- v) Resolution No. 12011/44/96-BCC, dated the 6th December, 1996, published in the Gazette of India – Extraordinary-part I, Section-I, No. 210, dated the 11th December, 1996.
- vi) Resolution No.12011/13/97-BCC dated 3rd December, 1997.
- vii) Resolution No.12011/99/94-BCC dated 11th December, 1997.
- viii) Resolution No.12011/68/98-BCC dated 27th October, 1999.
- ix) Resolution No.12011/88/98-BCC dated 6th December, 1999, published in the Gazette of India, Extra Ordinary Part-I, Section-I No.270, 6th December, 1999.
- x) Resolution No.12011/36/99-BCC dated 4th April, 2000, published in the Gazette of India, Extra Ordinary Part-I, Section-I, No.71 dated 4th April, 2000.
- xi) Resolution No.12011/44/99-BCC dated 21.9.2000, published in the Gazette of India, Extra Ordinary Part-I, Section-I, No.210 dated 21.9.2000.

Shri \_\_\_\_\_ and/or his family ordinarily reside(s) in the  
\_\_\_\_\_ District/Division of the \_\_\_\_\_ State.

This is also to certify that he/she does not belong to the persons/sections (Creamy Layer) mentioned in column 3 of the Schedule to the Government of India, Department of Personnel & Training OM No. 36012/22/93-Estt. (SCT,) dated 08.09.1993 and modified vide Govt. of India Deptt. of Personnel and Training OM No. 36033/3/2004-Estt(Res) dated 09.03.2004 & 14.10.2008.

District Magistrate or  
Deputy Commissioner etc.

Dated:

Seal:



Note-I: (a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

(b) The authorities competent to issue Caste Certificate are indicated below:-

- (i) District Magistrate/Additional Magistrate/Collector/Dy. Commissioner/ Additional/ Deputy Commissioner/Deputy Collector/Ist Class Stipendary Magistrate/ SubDivisional Magistrate/Taluka Magistrate/ Executive Magistrate/Extra Assistant Commissioner (not below the rank of 1st Class Stipendiary Magistrate).
- (ii) Chief Presidency Magistrate /Additional Chief Presidency Magistrate/ Presidency Magistrate.
- (iii) Revenue Officer not below the rank of Tehsildar
- (iv) Sub-Divisional Officer of the area where the candidate and/or his family resides.

NOTE-II: The candidate should furnish the relevant OBC certificate in the format prescribed for Central Government jobs as per Annexure-VI issued by the Competent Authority at the time of interview.

Note-III: The Certificates should have been obtained within three years before closing date of receipt of applications i.e.10-02-2012. Certificates issued upto the last tier of examination i.e. interview will also be accepted by the Commission.

## NAME &amp; ADDRESS OF THE INSTITUTE/HOSPITAL

Certificate No. \_\_\_\_\_

Date \_\_\_\_\_

## DISABILITY CERTIFICATE

This is certified that Shri/Smt/Kum\* \_\_\_\_\_ son/wife/daughter of Shri \_\_\_\_\_ age \_\_\_\_\_ sex \_\_\_\_\_ identification mark(s) \_\_\_\_\_ is suffering from permanent disability of following category :-

## A. Locomotor or cerebral palsy :

- (i) BL-Both legs affected but not arms.
- (ii) BA-Both arms affected (a) Impaired reach  
(b) Weakness of grip
- (iii) BLA-Both legs and both arms affected
- (iv) OL-One leg affected (right or left) (a) Impaired reach  
(b) Weakness of grip  
(c) Ataxic
- (v) OA-One arm affected (a) Impaired reach  
(b) Weakness of grip  
(c) Ataxic
- (vi) BH - Stiff back and hips (Cannot sit or stoop)
- (vii) MW - Muscular weakness and limited physical endurance.

Affix here recent attested photograph showing the disability duly attested by the Chairperson of the medical board
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B. Blindness or Low Vision : (i) B-Blind  
(ii) PB-Partially BlindC. Hearing Impairment : (i) D-Deaf  
(ii) PD-Partially Deaf

( DELETE THE CATEGORY WHICHEVER IS NOT APPLICABLE )

2. This condition is progressive/non-progressive/likely to improve/not likely to improve. Reassessment of this case is not recommended/is recommended after a period of \_\_\_\_\_ years \_\_\_\_\_ months.\*

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

4. Sh./Smt./Kum\* \_\_\_\_\_ meets the following physical requirements for discharge of his /her duties :-

- |  |        |
|--|--------|
| (i) F-can perform work by manipulating with fingers. | Yes/No |
| (ii) PP-can perform work by pulling and pushing.     | Yes/No |
| (iii) L-can perform work by lifting.                 | Yes/No |
| (iv) KC-can perform work by kneeling and crouching.  | Yes/No |
| (v) B-can perform work by bending.                   | Yes/No |
| (vi) S-can perform work by sitting.                  | Yes/No |
| (vii) ST-can perform work by standing.               | Yes/No |

- |  |        |
|--|--------|
| (viii) W-can perform work by walking.            | Yes/No |
| (ix) SE-can perform work by seeing.              | Yes/No |
| (x) H-can perform work by hearing/speaking.      | Yes/No |
| (xi) RW-can perform work by reading and writing. | Yes/No |

(Dr. \_\_\_\_\_) (Dr. \_\_\_\_\_)  
Member, Medical Board    Member, Medical Board

(Dr. \_\_\_\_\_)  
Chairperson, Medical Board

Countersigned by the Medical Superintendent/  
CMO/Head of Hospital (with seal)

\*Strike out which is not applicable.

## Essential Educational Qualification Code

<b>Educational Qualification</b>	<b>Code</b>
Matriculation	01
Higher Secondary	02
Certificate	03
Diploma	04
BA	05
BA (Hons)	06
B. Com.	07
B.Com. (Hons)	08
B.Sc.	09
B.Sc. (Hons.)	10
B. Ed.	11
LLB	12
BE	13
B. Tech	14
AMIE (Part A & Part B)	15
B.Sc. (Engg.)	16
BCA	17
BBA	18
Graduation Certificate issued by Defence (Indian Army, Air Force, Navy)	19
B. Lib. Sc.	20
B. Pharm.	21
ICWA	22
CA 23	23
PG Diploma	24
MA	25
M.Com.	26
M. Sc.	27
M.Ed.	28
LLM	29
ME	30
M. Tech.	31
M. Sc. (Engg.)	32
MCA	33
MBA	34
Others	35
Intermediate Examination in Buildings and Quantity Surveying Sub-Div.II of the Institute of Surveyors(India)	36
Direct Final Examination in Buildings and Quantity Surveying Sub.Div.II of the Institute of Surveyors (India)	37

Subject Code for Educational Qualification

Subject of Educational Qualification	Code
History	01
Political Science	02
Economics	03
English Literature	04
Hindi Literature	05
Geography	06
Commerce	07
Law	08
Physics	09
Chemistry	10
Mathematics	11
Statistics	12
Botany	13
Zoology	14
Agriculture Science	15
Civil Engineering	16
Electrical Engineering	17
Mechanical Engineering	18
Electronics Engineering	19
Electronics & Power Engineering	20
Electronics & Communication Engineering	21
Electronics & Instrumentation Engineering	22
Agriculture Engineering	23
Computer Science	24
Computer Application	25
Information Technology	26
Library Science	27
Accountancy	28
Work Accountancy	29
Business Administration	30
Mass Communication	31
Journalism	32
Mass Communication & Journalism	33
Pharmacy	34
Photography	35
Printing Technology	36
Nursing	37
Assamese	38
Bengali	39
Malyalam	40
Telgu	41
Kannada	42
Tamil	43
Marathi	44
Gujrati	45
Urdu	46
Sanskrit	47
Others	48
Electrical & Electronics	49
Electrical/Power	50
Civil & Structural Engineering	51

Civil and Rural Engineering.	52
Mechanical Engineering with specialization in Production Engineering	53
Mechanical Engineering with specialization in Power Plant Engineering.	54
Mechanical Engineering with specialization in Tool Tech Engineering.	55
Civil Engineering with specialization in Architecture & Town Planning.	56
Civil Engineering with specialization in Public Health Engineering.	57
Civil Engineering (N.C)	58
Civil Engineering (Water & Power Resources)	59
Civil Engineering (Water Resources)	60
Civil Engineering (Construction)	61
Civil Engineering (Environmental Pollution & Control)	62
Mechanical Engineering (Production)	63
Mechanical Engineering (Maintenance)	64
Mechanical Engineering (Automobile)	65
Post Graduation in Engineering	66
Building & Quantity Surveying	67

### Annexure-IX

#### List of Equivalent Qualifications

S.No.	Subject (Degree/ Diploma)
1	AMIE (Section A&B) in Civil/Electrical/Mechanical Engg. of Instt. of Engineers (India)
2	Diploma in Electrical & Electronics Engineering
3	B.E. (Electrical/Power)
4	Diploma in Civil & Structural Engineering
5	Degree/Diploma in Civil and Rural Engineering.
6	B.Sc (Civil Engineering)
7	Diploma in Mechanical Engineering with specialization in Production Engineering.
8	Diploma in Mechanical Engineering with specialization in Power Plant Engineering.
9	Diploma in Mechanical Engineering with specialization in Tool Tech Engineering.
10	Diploma in Civil Engineering with specialization in Architecture & Town Planning.
11	Diploma in Civil Engineering with specialization in Public Health Engineering.
12	Diploma in Civil Engineering (N.C)
13	Diploma in Civil Engineering (Water & Power Resources)
14	Diploma in Civil Engineering (Water Resources)
15	Diploma in Civil Engineering (Construction)
16	Diploma in Civil Engineering (Environmental Pollution & Control)
17	Diploma in Mechanical Engineering (Production)
18	Diploma in Mechanical Engineering (Maintenance)
19	Diploma in Mechanical Engineering (Automobile)
20	Post Graduation in Engineering

