

STAFF SELECTION COMMISSION NOTICE



JUNIOR ENGINEERS (CIVIL, MECHANICAL, ELECTRICAL and QUANTITY SURVEYING & CONTRACT) EXAMINATION, 2017

Date of Publication: 21-10-2017

Closing date: 17-11-2017

Date of Computer Based Written Exam: 05-01-2018 to 08-01-2018

"GOVERNMENT STRIVES TO HAVE A WORKFORCE WHICH REFLECTS GENDER BALANCE AND WOMAN CANDIDATES ARE ENCOURAGED TO APPLY"

<u>F.No.3/12/2017- P&P-II</u>: Staff Selection Commission will hold an open competitive Computer Based Examination for recruitment of Junior Engineers Group-'B' (Non-Gazetted) posts, in Level-6 (Rs.35400-112400/-) of pay matrix of 7th CPC w.e.f. 5th January 2018 to 08th January 2018.

2. Detail of Posts:

S.No.	Organisation	Post	
1.	Central Water Commission	Junior Engineer (Civil)	
2.	Central Water Commission	Junior Engineer (Mechanical)	
3.	CPWD	Junior Engineer (Civil)	
4.	CPWD	Junior Engineer (Electrical)	
5.	Department of Post	Junior Engineer (Civil)	
6.	MES	Junior Engineer (Civil)	
7.	MES	Junior Engineer (Electrical and Mechanical)	
8.	MES	Junior Engineer (Quantity Surveying and Contract)	
9.	Farrakka Barrage (Project)	Junior Engineer (Civil)	
10.	Farrakka Barrage (Project)	Junior Engineer (Electrical)	
11.	Farrakka Barrage (Project)	Junior Engineer (Mechanical)	
12.	Director General Border Roads	Junior Engineer (Civil)	
	Organisation		
13.	Director General Border Roads	Junior Engineer (Electrical)	
	Organisation		
14.	Director General Border Roads	Junior Engineer (Mechanical)	
	Organisation		
15.	Central Water Power Research	Junior Engineer (Civil)	
	Station.		
16.	Central Water Power Research	Junior Engineer (Electrical/Mechanical)	
	Station.		
17.	Dte. Of Quality Assurance (Naval)	Junior Engineer (Naval Quantity Assurance) -	
		(Mechanical)	
18.	Dte. Of Quality Assurance (Naval)		
		(Electrical)	
19.	National Technical Research	Junior Engineer (Civil)	
	Organisation		
20.	National Technical Research	Junior Engineer (Electrical)	
2.1	Organisation	7	
21.	National Technical Research	Junior Engineer (Mechanical)	
	Organisation		

Vacancies: It may please be noted that the number of vacancies in the organisations listed below have not been finalised. The list of organisations may also undergo a change depending upon vacancies available therein, before processing of results.

Only male candidates are eligible for the posts of Junior Engineers in Director General Border Roads Organisation (BRO), Ministry of Defence.

3. Reservation:

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

The posts have been identified suitable for the persons suffering from disabilities of forty percent (40%) and above of One Arm (OA), One Leg (OL), Hearing Handicapped (HH) as per guidelines of Ministry of Social Justice and Empowerment.

4. 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 setting 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 as on 1stJanuary 2018

S.No.	Organisation Name	Post name	Age limit	Candidate
				must not be
				born before
1.	Central Water	Junior Engineer (Civil)	Upto 32 years	02-01-1986
	Commission	_		
2.	Central Water	Junior Engineer	Upto 32 years	02-01-1986
	Commission	(Mechanical)		
3.	CPWD	Junior Engineer (Civil)	Upto 32 years	02-01-1986
4.	CPWD	Junior Engineer	Upto 32 years	02-01-1986
		(Electrical)		
5.	Department of Post	Junior Engineer(Civil)	Upto 27 years	02-01-1991
6.	MES	Junior Engineer(Civil)	Upto 30 years	02-01-1988
7.	MES	Junior Engineer	Upto 30 years	02-01-1988
		(Electrical and		
		Mechanical)		
8.	MES	Junior Engineer (Quality	Upto 27 years	02-01-1991
		Surveying and Contract)		
9.	Farrakka Barrage	Junior Engineer (Civil)	Upto 30 years	02-01-1988
	(Project)	<u> </u>	· •	

10.	Farrakka Barrage (Project)	Junior Engineer (Electrical)	Upto 30 years	02-01-1988
11.	Farrakka Barrage (Project)	Junior Engineer (Mechanical)	Upto 30 years	02-01-1988
12.	Director General Border Roads Organisation	Junior Engineer (Civil)	Upto 30 years	02-01-1988
13.	Director General Border Roads Organisation	Junior Engineer (Electrical)	Upto 30 years	02-01-1988
14.	Director General Border Roads Organisation	Junior Engineer (Mechanical)	Upto 30 years	02-01-1988
15.	Central Water Power Research Station.	Junior Engineer (Civil)	Upto 30 years	02-01-1988
16.	Central Water Power Research Station.	Junior Engineer (Electrical)	Upto 30 years	02-01-1988
17.	Dte of Quality Assurance(Naval)	Junior Engineer (Naval Quality Assurance) - (Mechanical)	Upto 30 years	02-01-1988
18.	Dte of Quality Assurance(Naval)	Junior Engineer (Naval Quality Assurance) - (Electrical)	Upto 30 years	02-01-1988.
19.	National Technical Research Organisation	Junior Engineer (Civil)	Upto 30 years	02-01-1988
20.	National Technical Research Organisation	Junior Engineer (Electrical)	Upto 30 years	02-01-1988
21.	National Technical Research Organisation	Junior Engineer (Mechanical)	Upto 30 years	02-01-1988

Candidates should note that the Date of Birth as recorded in the Matriculation/Secondary Examination Certificate or an equivalent certificate only will be accepted by the Commission for determining the age and no subsequent request for its change will be considered or granted.

Candidates are advised to opt only for such posts for which they have the qualification and are within the prescribed age limits. Permissible relaxation of upper age limit prescribed under para 4 above and Category Codes for claiming age relaxation as on date of reckoning:-

Code	Category	Age-Relaxation Permissible
		beyond the Upper age limit
01	SC/ST	5 years
02	OBC	3 years
03	PH	10 years
04	PH (OBC)	13 years
05	PH (SC/ST)	15 years
06	Ex-Servicemen (Unreserved / General)	03 years after deduction of
		the military service rendered
		from the actual age as on the
		closing date on receipt of
		online application.

07	Ex-Servicemen (OBC)	06 years (3 years + 3 years) after deduction of the military service rendered from the actual age as on the closing date on receipt of online application.
08	Ex-Servicemen (SC/ ST)	08 years (3 years + 5 years) after deduction of the military service rendered from the actual age as on the closing date on receipt of online application
12	Central Govt. Civilian Employees (General/Unreserved) who have rendered not less than 3 years regular and continuous service as on Closing date.	Upto 5 Years of age
13	Central Govt. Civilian Employees (OBC) who have rendered not less than 3 years regular and continuous service as on Closing date.	Upto 8 (5+3) years of age.
14	Central Govt. Civilian Employees (SC/ST) who have rendered not less than 3 years regular and continuous service as on Closing date	Upto 10 (5+5) years of age.
21	Candidates who had ordinarily been domiciled in the State of Jammu & Kashmir during the period from 01-01-1980 to 31-12-1989 (Unreserved/General)	5 years
22	Candidates who had ordinarily been domiciled in the State of Jammu & Kashmir during the period from 01-01-1980 to 31-12-1989 (OBC)	8 years
23	Candidates who had ordinarily been domiciled in the State of Jammu & Kashmir during the period from 01-01-1980 to 31-12-1989 (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)	5 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)	8 (5+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)	10 (5+5) years

Ex-Servicemen who have already secured employment in civil side under Central Government on regular basis after availing of the benefits of reservation given to ex-Servicemen for their reemployment are NOT eligible for fee concession. However, he/she can avail the benefit of reservation as ex-Serviceman for subsequent employment if he/she immediately after joining civil employment, given self declaration/undertaking to the concerned employer about the date-wise details of application for various vacancies for which he/she had applied for before joining the initial civil employment as mentioned in the OM No.36034/1/2014-Estt. (Res) dated 14th August 2014 issued by DOP&T.

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, as per rules.

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.

An ex-Serviceman means a person:-

- (i) who has served in any rank whether as a combatant or non combatant in the Regular Army, Navy and Air Force of the Indian Union, and
- (a) who either has been retired or relieved or discharged from such service whether at his own request or being relieved by the employer after earning his or her pension, or
- (b) who has been relieved from such service on medical grounds attributable to military service or circumstances beyond his control and awarded medical or other disability pension:

or

(c) who has been released from such service as a result of reduction in establishment.

Or

(ii) who has been released from such service after completing the specific period of engagement, 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, namely pension holders for continuous embodied service or broken spells of qualifying service.

or

(iii) personnel of the Army Postal Service who are part of Regular Army and retired from the Army Postal Service without reversion to their parent service with pension, or are released from the Army Postal Service on medical grounds attributable to or aggravated by military service or circumstance beyond their control and awarded medical or other disability pension.

or

(iv) Personnel, who were on deputation in Army Postal Service for more than six months prior to the 14th April, 1987.

or

- (v) Gallantry award winners of the Armed forces including personnel of Territorial Army.
- (vi) Ex-recruits boarded out or relieved on medical ground and granted medical disability pension.

5. 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 at the time of Document Verification. Otherwise, their claim for SC/ ST/ OBC/ PH (PWD)/ ExS status will not be entertained and their candidature / applications will be considered under General (UR) category. The formats of the certificates are annexed. Certificates in any other format will not be accepted. A person seeking appointment on the basis of reservation to OBCs must ensure that he/she possesses the caste / community certificate and does not fall in creamy layer on the crucial date. The crucial date for this purpose will be the closing date for receipt of online application i.e. 17-11-2017.

Candidates may also note that in respect of the above, their candidature will remain provisional till the veracity of the concerned document is verified by the Appointing Authority.

Candidates are cautioned that they may be permanently debarred from the examination conducted by the Commission in case they fraudulently claim SC/ST/OBC/ExS/PH(PwD) status.

$6. \ Essential \ Educational \ Qualifications \ (as \ on \ 01-01-2018):$

S. Post		Educational and Other Qualification
No.		
1. Junior Engineer (Civil)), CPWD	Diploma in Civil Engineering from a recognized
2. Junior Engineer(Electr	ical)	University or Institute. Diploma in Electrical or Mechanical Engineering
CPWD	icai)	from a recognised University or Institute.
3. Junior Engineer (Civil)), Department	Three years Diploma or equivalent in Civil
of Posts	1	Engineering from an institution recognized by the
		Central Government or State Government.
4. Junior Engineer (Civil)), 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.
5. Junior Engineer (Electronic State of	rical &	Degree in Electrical or Mechanical Engineering from
Mechanical), MES		a recognised University;
		OR
		(I) Three years diploma in Electrical or Mechanical
		Engineering from a recognised Institute or University or Board; and
		or Board, and
		(II) Two years experience in Planning, Execution and
		Maintenance of Electrical or Mechanical Engineering
		works.
6. Junior Engineer (Quan	titv	(i)3 years Diploma in Civil engineering from a
Surveying & Contract)	-	recognised institute/University/Board or equivalent;
		OR
		(ii) Passed Intermediate examination in Building and
		Quantity Surveying Sub Divisional -II of the institute
7 Junion Engineer (C)	vil) Cantual	of Surveyors (India).
7. Junior Engineer (Ci Water Commission (C	* *	Degree or Diploma in Civil Engineering from a
w ater Commission (C	vv C)	recognised University or Institution
8. Junior Engineer (Mo	echanical) in	Degree or Diploma in Mechanical Engineering from
Central Water Commi	•	a recognised University or Institution.
9. Junior Engineer (Civil		Diploma in Civil Engineering from a recognised
Barrage Project	,	University or Institute
		•
10. Junior Engineer	(Mechanical),	Diploma in Mechanical Engineering from a
Farrakka Barrage Proje	` ' '	recognised University or Institute.
11. Junior Engineer	(Electrical),	Diploma in Electrical Engineering from a recognised
Farrakka Barrage Proje	ect.	University or Institute.
12. Junior Engineer (Civ	vil), Border	Three years Diploma in civil engineering or
Roads Organisation,	Ministry of	equivalent from the recognised University or
Defence		Institute.
		<u>Desirable</u>

		Two years working experience in the field of civil
		construction in monitoring and executive of projects.
13.	Junior Engineer (Electrical / Mechanical), Border Roads Organisation in Ministry of Defence	Three years Diploma in Engineering (Electrical and Mechanical) from the recognised University or Institute. Desirable Two years working experience in the field of Electrical / Mechanical Engineering in a area of construction in monitoring and executive of projects.
14.	Junior Engineer (Civil), Central Water Power Research Station.	Diploma in Civil Engineering from a recognised University.
15.	Junior Engineer (Electrical / Mechanical), Central Water Power Research Station	Diploma in Electrical from a recognised University.
16.	Junior Engineer(Mechanical) Dte of Quality Assurance Naval	Diploma in Mechanical Engineering from any recognised University/Institution; and Two years experience in respective fields i.e Either of the field assurance/quality control/ production/manufacturing and testing of marine engineering propulsion system including turbines, power generation equipment, hydraulic system, as conditioning/refrigeration, pumps values, gears and gear trains, boilers, cranes/winches/load handling devices etc. including knowledge of various standard and their interpretation.
17.	Junior Engineer (Electrical) Dte of Quality Assurance Naval	Diploma in Electrical Engineering from any recognised University / Institution; and Two years experience in respective fields i.e Either of the field assurance / quality control / production / manufacturing and testing of switch gears, cables, converters, light and light fitting, motors, generators, drives and control systems, airfield lighting equipment, Electronics / Radar / Radio / Telecommunication equipment, electro hydraulic system, programmable logic controller based systems, printed circuit boards / instrumentation, software development and validation, network control system etc. including knowledge of various standard and their interpretation. and their interpretation.
18.	Junior Engineer (Civil) National Technical Research Organisation	Diploma in Civil Engineering from recognised University/Institution.
19.	Junior Engineer (Electrical) National Technical Research Organisation.	Diploma in Electrical Engineering from recognised University/Institution.
	Junior Engineer (Mechanical)	Diploma in Mechanical Engineering from recognised

20.	National	Technical	Research	University/Institution.
	Organisatio	on		

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

As per Ministry of Human Resource Development Notification dated 10.6.2015 published in Gazette of India all the degrees/diplomas/certificates including technical education degree/diploma awarded through Open and Distance Learning mode of education by the Universities established by an Act of Parliament or State Legislature, Institutions Deemed to be Universities under Section 3 of the University Grant Commission Act 1956 and Institutions of National Importance declared under an Act of Parliament stand automatically recognized for the purpose of employment to posts and services under the Central Government provided they have been approved by the Distance Education Bureau, University Grant Commission.

All candidates who are called for documents verification 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 01-08-2018 failing which the candidature of such candidate will be cancelled by the Commission. The candidates who are able to prove, by documentary evidence that the result of the qualifying examination was declared on or before the cut off date and he/she has been declared passed, will also be considered to have met the required educational qualification.

ExS who have done various courses from Armed Forces which are certified by Competent Authority to be equivalent to Diploma in Civil/Mechanical/Electrical Engineering are eligible to appear in the Examination.

7. Mode of payment of fee payable Rs.100/- (Rupees One Hundred only).

Candidate may note that only online application will be accepted at http://ssconline.nic.in.

Fee paid in respect of online applications through SBI Challan / Net banking and any credit and debit cards will be accepted.

Women candidates and candidates belonging to Scheduled Caste, and Scheduled Tribes, Physically handicapped and Ex-Servicemen eligible for reservation are exempted from paying fee, as per rules/instructions of Department of Personnel and Training, Government of India.

Fee once paid will not be refunded under any circumstances.

8. Details of Regional / Sub-Regional Offices:- Correspondence relating to non-receipt of Admission Certificate etc and other grievances should be sent to concerned Regional/Sub Regional Offices, of the Commission, details of which are as under:-

S.No.	Centre of Examination & Centre	Regional/Sub-Regional office	
	Code		
1	Dehradun-2002, Delhi-2201,	Regional Director (NR),	
	Jaipur-2405,	Staff Selection Commission,	
		Block No. 12, CGO Complex,	

		Lodhi Road, New Delhi-110504.
2	Hyderabad-8601, Nizamabad-8602,	Regional Director (SR),
	Warrangal-8603, Vijayawada-8008	Staff Selection Commission,
	Vishakhapatnam-8007, Chennai-	EVK Sampath Building, 2 nd Floor,
	8201, Pondicherry-8401,	College Road, Chennai, Tamil Nadu-600006.
3	Gangtok-4001, Ranchi-4205,	Regional Director (ER),
	Kolkata-4410, Bhubaneswar-4604,	Staff Selection Commission, Nizam Palace, Ist
	Port Blair-4802,	M.S.O. Building (8 th Floor),
		234/4 A. J. C. Bose Road,
		Kolkata, West Bengal – 700020
4.	Ahmedabad -7001 Mumbai-7204,	Regional Director (WR),
	Nagpur-7205, Panaji-7801,	Staff Selection Commission,
		Ist Floor, South Wing, Pratishta Bhawan,
		101 Maharshi Karve Road, Mumbai
		Maharashtra – 408020.
5.	Allahabad-3003, Lucknow-3010	Regional Director (CR),
	Patna-3206,	Staff Selection Commission, 21-23 Lowther
		Road, Allahabad, Uttar Pradesh – 211002.
6.	Itanagar- 5001,	Regional Director (NER),
	Guwahati (Dispur)-5105,	Staff Selection Commission,
	Imphal-5501, Kohima-5302,	Housefed Complex, West End Block, Last Gate,
	Shillong-5401, Churachandpur-5502	Beltola Basistha Road, Dispur
	Agartala-5601, Aizwal-5701,	Guwahati, Assam-781006.
7.	Bengaluru-9001,	Regional Director (KKR),
	Thiruvananthapuram-9211,	Staff Selection Commission,
	Kavaratti-9401	1 St Floor, "E" Wing, Kendriya Sadan,
		Koramangala, Bangalore, Karnataka-560034.
8.	Bhopal-6001, Jagdalpur-6203,	Dy. Director (MPR),
	Raipur-6204,	Staff Selection Commission,
		J-5 Anupam Nagar, Raipur
_		Chhatisgarh-492001.
9.	Baramula-1002, Jammu-1004,	Dy. Director (NWR),
	Srinagar (J&K)-1007, Shimla-1203,	Staff Selection Commission,
	Chandigarh-1601,	Block No. 3, Ground Floor, Kendriya Sadan
		Sector-9, Chandigarh-167017.

No change of centre of Examination will be entertained under any circumstances. Hence, the candidates should select the centres carefully and indicate the same correctly in their applications.

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.

9. **Scheme of Examination:**

Papers	Mode of	Subject	No.of	Maximum	Duration &
	Examination		Questions	marks	Timings
Paper-I	Computer	(i) General	50	50	2 Hours
Objective	Base Mode	Intelligence			
Type		Reasoning			Morning shift
		_			[10.00 AM to
(Date of		(ii) General	50	50	12.00 Noon]
Examination		Awareness			
05-01-2018					Afternoon Shift
to		(iii) Part.A			[2.00 PM to 4.00
08-01-2018)		General Engineering	100		PM]

		(Civil & Structural) OR Part-B General Engineering (Electrical) OR Part-C General Engineering (Mechanical)		100	Note: Entry to the examination venue will not be allowed after 9.30 AM in the morning shift and after 1.30 PM in the afternoon shift.
Paper-II Conventional Type	Written Examination	Part-A General Engineering (Civil & OR Part- B General Engine (Electrical) OR Part-C General Engine (Mechanical)	eering	300	2 Hours Date to be intimated later on.

In Paper-II and Paper-II for General Engineering, the candidate will be required to attempt only the part as per option given in column 13 of the application form filled 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-II and Paper-II and the candidates appearing for the post of Junior Engineer (Electrical) should attempt Part-B (Electrical) and the candidates appearing for the post of Junior Engineer (Mechanical) should attempt Part C (Mechanical) of Paper-II and Paper-II failing which his/her answer sheet (Paper-II) will not be evaluated.

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

Paper-I will consist of Objective Type Multiple Choice questions only. Candidates who are shortlisted on the basis of performance in Paper –I will be called for Paper-II (Conventional Type).

Candidates are not permitted to use Mobile Phone or any other electronic / electrical device other than those specifically permitted. 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 candidature of such candidates will be cancelled forthwith. Such candidates are also liable for debarment upto a period of 3 years and/or criminal prosecution.

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.

Answer Keys will be placed on the Commission's website after the Examination. Candidates may go through the Answer Keys corresponding to their Test Form and submit representations, if any, within the time limit given by the Commission through on-line modality only, on payment of Rs. 100/- per answer. Any representation regarding Answer Key received within the time limit fixed by

the Commission at the time of uploading of the Answer Key will be scrutinized and the decision of the Commission in this regard will be final. No. representation regarding Answer Keys shall be entertained, afterwords.

10. Indicative Syllabus

The standard of the questions in Engineering subjects will be approximately of the level of Diploma in Engineering (Civil/ Electrical/ Mechanical/Electronics) from a recognized Institute, Board or University 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) <u>General Intelligence & Reasoning:</u> 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) <u>General Awareness</u>: 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):

Part-A

Civil Engineering

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.

Part-B

Electrical Engineering

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.

Part-C

<u>Mechanical Engineering</u> – Theory of Machines and Machine Design, Engineering Mechanics and Strength of Materials,

Properties of Pure Substances, 1st Law of Thermodynamics, 2nd 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

Part-A: Civil & Structural Engineering

Civil Engineering

<u>Building Materials</u>: 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, Trapezodial 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.

<u>Surveying</u>: 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.

<u>Soil Mechanics</u>: 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.

<u>Hydraulics</u>: 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.

<u>Irrigation Engineering</u>: 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.

<u>Transportation Engineering</u>: 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.

<u>Environmental Engineering</u>: 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

<u>Theory of structures</u>: 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.

<u>Concrete Technology</u>: 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.

<u>RCC Design</u>: 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.

Part-B (Electrical Engineering):

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

<u>Circuit law</u>: Kirchhoff's law, Simple Circuit solution using network theorems.

<u>Magnetic Circuit</u>: 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.

<u>AC Fundamentals</u>: 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-Land R-C circuit.

<u>Measurement and measuring instruments</u>: 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 oil 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.

<u>Electrical Machines</u>: (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.

<u>Synchronous Machines</u> - 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. Buchholtz 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.

<u>Estimation and costing</u>: Estimation of lighting scheme, electric installation of machines and relevant IE rules. Earthing practices and IE Rules.

<u>Utilization of Electrical Energy</u>: Illumination, Electric heating, Electric welding, Electroplating, Electric drives and motors.

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

Part- C (Mechanical Engineering):

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

<u>Properties of Pure Substances</u>: p-v & P-T diagrams of pure substance like H_2O , 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).

1st Law of Thermodynamics: Definition of stored energy & internal energy, 1st 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.

2nd 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 2nd 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.

<u>Air standard Cycles for IC engines</u>: 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 Refrigeraton Plant; Nozzles & Steam Turbines

Fluid Mechanics & Machinery

<u>Properties & Classification of Fluid</u>: 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.

<u>Fluid Kinematics</u>: Stream line, laminar & turbulent flow, external & internal flow, continuity equation.

<u>Dynamics of ideal fluids</u>: Bernoulli's equation, Total head; Velocity head; Pressure head; Application of Bernoulli's equitation.

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

Hydraulic Turbines: Classifications, Principles.

<u>Centrifugal Pumps</u>: Classifications, Principles, Performance.

Production Engineering

<u>Classification of Steels</u>: mild steal & 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.

11. General instructions to be complied by the candidates in the written examination:

Candidates must write the papers/indicate the answers in their own hand.

Candidates are not permitted to use 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.

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 and he/she will be debarred form the Commission's examination for a period of three years.

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.

In the question papers, wherever necessary, the Metric systems of weights and measures only will be used.

12. Mode of Selection:

Candidates will be shortlisted and recommended for appointment by the Commission on the basis of their total marks in the Paper -I & II and preference for the posts.

Provided that SC, ST, OBC and PH (PWD) 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(PWD) 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(PWD) candidates which will thus comprise of SC, ST, OBC and PH(PWD) 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 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.

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 examination, it is found that they do not fulfil any of the eligibility conditions, their candidature for the examination will be cancelled by the Commission.

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.

13. 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 Paper-II.
- (ii) Total marks in Paper-I.
- (iii) Date of birth, with older candidates placed higher.
- (iii) Alphabetical order in the first names of the candidates appear.
- 14. In accordance with the directions issued by DOPT vide its O.M. No.39020/1/2016-Estt. (B) dated 21.06.2016 for increasing access of the unemployed candidates to job opportunities it has been decided that after declaration of final result the Commission will make the scores and rankings in the said open Competitive Examinations conducted by the Commission available on its website in descending order of ranking. Accordingly, it has been decided that the following details of the candidates will be made available on its website:
- (i) Name of candidate.
- (ii) Father/Husband's name
- (iii) Date of Birth
- (iv) Category(Gen/SC/ST/OBC/PH/Minority)
- (v) Gender of the candidate.
- (vi) Educational Qualifications.
- (vii) Total Marks obtained in the qualifying examination
- (viii) Ranking by which the merit is decided.
- (ix) Complete address
- (x) E-mail address

However, the candidate will have the option, at the time of filling up of his/her application form, from opting out of disclosing the above details publicly. Accordingly, the scores and rankings in respect of only those candidates who have opted for disclosing the above details or else have inadvertently not exercised their options will be made available on the website of the Commission.

15. How to apply:

All applications must be submitted online only. Detailed instructions as in Annexure-IIA and Annexure-II B may be referred to.

16. Preferences for Posts & Departments / Offices

A candidate is required to indicate at Sl. No. 16 in his/her Application Form, name of post 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 Posts 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 post. The posts for the purpose are grouped and codes as below:-

Code.	Post
A	JE (Civil), Central Water Commission
В	JE (Mechanical), Central Water Commission
С	JE (Civil), CPWD
D	JE (Electrical), CPWD
Е	JE (Civil), Department of Post
F	JE (Civil), Military Engineering Service
G	JE (Electrical and Mechanical), Military Engineering Service
Н	JE (Quality Surveying and Contract), Military Engineering Service.
I	JE (Civil), Farrakka Barrage Project
J	JE (Mechanical), Farrakka Barrage Project
K	JE (Electrical), Farrakka Barrage Project
L	JE (Civil), Director General Border Roads
M	JE (Electrical), Director General Border Roads
N	JE (Mechanical), Director General Border Roads
О	Junior Engineer (Civil), Central Water Power Research Station
P	Junior Engineer (Electrical), Central Water Power Research Station
Q	Junior Engineer (Mechanical) (Naval Quality Assurance), DGQA, Ministry
	of Defence
R	Junior Engineer (Electrical) (Naval Quality Assurance), DGQA, Ministry
	of Defence
S	Junior Engineer (Civil), National Technical Research Organisation
T	Junior Engineer (Electrical), National Technical Research Organisation.
U	Junior Engineer (Mechanical), National Technical Research Organisation.

Candidates may note that options once exercised are final and no change will be allowed under any circumstance.

17. 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 concerned regional office of 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. Candidates are required to download the admission certificate from the website of the Regional/Sub Regional Office concerned. It will not be sent by post. 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 details such as registration id, transaction id of SBI, copy of challan etc. for obtaining the admission certificates. Failure to do so will deprive him/her of any claim for consideration.

The photographs used by the candidates must be a recent, relaxed face, colour picture and the picture should be in colour, against a light-coloured, preferably white, background. If flash is used then ensure that there is no red-eye and, in case of glasses, your eyes should be visible. The face should not cover less than 80 % of the entire photo. Photograph should be of 8 bit JPG format and its size should be between 4kb to 20 kB.

It is compulsory to carry at least one original Photo ID such as Voter's ID, Aadhaar Card, Driving License, ID cards issued by Government or other Offices where the candidates may be working. Candidates without such ID cards will not be allowed entry into the examination halls/venues.

Candidates should bring 3 passport size photographs for affixing it in the Commission's copy of Admission Certificate in the presence of Invigilator, if required. Candidates not carrying photographs will not be allowed to appear in the examination. Candidate are advised to keep 10 copies of the same photograph, which was uploaded/affixed in the application form, with them till the completion of entire examination process.

18. 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), 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.

19. Action against candidates found guiltily of misconduct:

Candidates are warned that they should not furnish any particulars that are false or suppress any material information while filling in the application form. Candidates are also warned that they should in no case attempt to alter or otherwise tamper with any entry in a document or the attested certified copy submitted by them nor should they submit a tampered/fabricated document.

Without prejudice to criminal action/debarment from Commission's examination wherever necessary, candidature will be summarily cancelled at any stage of the recruitment in respect of candidates found have indulged in any of the following:-

- (i) In possession of mobile phone & accessories and other electronic gadgets within the premises of the examination centres, whether in use or in switched off mode and on person or otherwise.
- (ii) Using unfair means in the examination hall.
- (iii) Obtaining support for his/her candidature by any means.
- (iv) Impersonate/Procuring impersonation by any person.
- (v) Submitting fabricated documents or documents which have been tampered with.
- (vi) Making statements which are incorrect or false or suppressing material information.
- (vii) Resorting to any other irregular or improper means in connection with his/her candidature for the examination.
- (viii) Misbehaving in any other manner in the examination hall with the Supervisor, Invigilator or Commission's representatives.
- (ix) Passing on of information related to CBE through any means to unauthorised persons during the conduct of the examination.
- (x) Intimidating or causing bodily harm to the staff employed by the Commission for the conduct of examination.
- (xi) Not fulfilling the eligibility condition mentioned in the Notice.
- (xii) Any other ground which the Commission considers to be sufficient cause.

20. Court 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.

21. 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 Annexure-I & II.

22. Important Instructions to Candidates:

- (i) The Examination will comprise of a Computer Based Examination for Paper-I and written examination for Paper-II.
- (ii) 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 at the time of document verification. 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.
- (iii) 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 at the time of document verification.

- (iv) Candidates with physical disability of 40% and more only would be considered as PHYSICALLY HANDICAPPED (PH) and entitled to reservation for PH. <u>The Posts are</u> not identified suitable for VH persons.
- (v) Central Government civilian employees claiming age relaxation should produce a certificate in the prescribed format from their office at the time of document verification in respect of the length of continuous service which should be for not less than three years during the period immediately preceding the closing date for receipt of application. They should remain Central Government civilian employees till the time of appointment in the event of their selection.
- (vi) FEE: Rupees one hundred ONLY (Rs. 100/-)

Women candidates and candidates belonging to Scheduled Caste, Scheduled Tribe, Physically Handicapped and Ex-Servicemen (eligible for reservation) are exempted from paying application fee as per extant Government Orders.

- (vii) CLOSING DATE: 17-11-2017 (Upto 5.00 PM).
- (viii) Only one online application is allowed to be submitted by a candidate for Junior Engineer (Civil, Mechanical, Electrical, and Quantity Surveying & Contract) Examination 2017. Therefore the candidates are advised to exercise due diligence at the time of filing their application forms. At the time of appearing in examination the candidates will be required to submit an undertaking that he/she has submitted only one application.
- (ix) Mobiles and other electronic gadgets are banned within the premises of the examination centres. Possession of such equipment whether in use or in switch off mode, during the examination will be considered as use of unfair means. Candidature of such candidates will be cancelled. They will be liable for further action including initiation of criminal proceedings and debarment from Commission's examination upto 3 (three) years, as may be decided by the Commission.
- Only online applications will be entertained for this examination. The facility of online application (including payment of fees through debit card) will be available from 21-10-2017 to 17-11-2017 (5.00 pm). However candidates who wish to make the payment through challan of SBI may be allowed to make the payment within the working hours of bank upto 20-11-2017 provided the challan has been generated by them before 5.00PM of 17-11-2017. Candidates should retain the Registration ID assigned to them online and details of payment of fee for further correspondence with the Commission. They should not submit print out of their application to the Commission.
- (xi) Candidates should bring 3 passport size colour photographs. Candidates not carrying photographs may not be allowed to appear in the examination.

- (xii) In case the scanned photograph(S) appearing in the Commission's copy of Admission Certificate and or on Attendance Sheet is not clear invigilators are required to verify the identity of the Candidate with reference to the photo ID Proof and get colour photographs pasted on the Commission's copy of Admission Certificate and or on Attendance Sheet. Accordingly, candidates should bring passport size colour photographs for affixing it in the Commission's copy of Admission Certificate in the presence of Invigilator. Candidates not carrying photographs will not be allowed to appear in the examination.
- (xii) All the posts carry All India Service Liability (AISL) i.e. the candidate, on selection, may be asked to serve anywhere in the country.
- (xiii) No admission certificates for aforesaid examination will be issued by post. Candidates are required to download admission certificate for the examination from the website of concerned Regional/Sub-Regional Offices.
- (xiv) The candidates who are debarred from the examination of the Commission must not apply. Candidature of such candidates shall be summarily rejected whenever it comes to the notice of the Commission.
- (xv) Candidates are advised to give their Aadhaar Number in the application form, though it is not mandatory for early redressal of grievance if any.
- (xvi) THE CANDIDATES MUST WRITE THEIR NAME, DATE OF BIRTH, FATHER'S NAME AND MOTHER'S NAME STRICTLY AS GIVEN IN THE MATRICULATION CERTIFICATE OTHERWISE THEIR CANDIDATURE WILL SUMARRILY BE CANCELLED AT THE TIME OF DOCUMENT VERIFICATION OR AS AND WHEN COMES INTO THE NOTICE OF THE COMMISSION.
- (xvi) Signature of the candidate: The signature must be uploaded in JPG format, the digital size of the signature file must be more than 1 kB and less than 12-kB. Further, the photograph must be uploaded in jpg format. The digital size of file of the photographs must be more than 4 KB and less than 20 KB.

(xvii) Application with illegible / blurred photograph and/or signature will be rejected summarily.

- (xviii) Candidates who are not exempted from fee payment must ensure that their fee has been deposited with SSC. If the fee is not received by SSC, status of Application Form is shown 'Incomplete' and this information is printed on the top of the Application Form. Further such status can be verified at "Check Your Application Status Here" tab provided at http://www.ssconline.nic.in. Such applications which remain incomplete due to non-receipt of fee will be SUMMERILY REJECTED and no request for consideration of such applications and fee payment later than the period specified in the Notice of Examination shall be entertained.
- (xxi) Request for change/ correction in any particular in the application form, once submitted, will not be entertained under any circumstances.

Under Secretary (P&P-II)

BROCHURE

INSTRUCTIONS FOR FILLING UP THE APPLICATION

- I. Please read the instruction given in the Notice of Examination carefully before filling up the application form, in your own interest.
- II. Please go through the instructions given below for filling up each item numbered in the application form:-

Column 1 and 2: Name of the Examination Centre and 2. Centre Codes

Refer to para-8 of the Notice of the Examination.

Column 12 & 12.1: Code for seeking age relaxation.

Refer to para 4-A of the Notice of the Examination.

<u>Column 13</u>: Subjects for general engineering - choose your subject carefully. It cannot be changed later on.

<u>Column 14</u>: Candidates should indicate whether they belong to one of the minority communities notified by Government namely Muslims, Christians, Sikhs, Buddhists, Zoroastrians (Parsis) or Jains.

<u>Column 16 Preference for Posts</u>: You are advised to opt for such posts/Departments (Refer Para 16) for which you have the requisite qualification. You are also advised to be careful in exercising your preference as in the event getting selected you will be considered for the post and Department in order of your merit and option for each post. Option once exercised will be final and no changes/additions will be allowed under any circumstances.

Column19: Educational Qualification and Subject Code: See Annexure – VII

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

Column 21: Address for communication

Write your complete communication address including your Name in English in capital letters. Do not forget to write 6 digits PIN code.

<u>Column 22</u>: Permanent Address: Write your complete permanent address including your name in English capital letters. Do not forget to write 6 digits PIN in the boxes.

<u>Column 23</u>: Photograph: The digital size of the file must be more than 4KB and less than 20 KB.

<u>Column 24:</u> Signature of Candidate: The Signature must be uploaded in JPG format. The digital size of the signature file must be more than 1KB and less than 12 KB.

NOTE: Request for change/correction in any particulars in the Application Form, once submitted will not be entertained under any circumstances.

Procedure for Online Submission of Application

- 1. On-line application will be available w.e.f. 21-10-2017 to 17-11-2017 (upto 5.00 PM)
- 2. To apply for the examination, candidates are required to register themselves on http://ssconline.nic.in. Candidates may register once and can apply for any Recruitment Examinations advertised by SSC.
- 3. The Registration facility is available to the candidates throughout the year on website **http://ssconline.nic.in**.
- 4. Candidate should read the instructions given in the Notice of Examination carefully before filling up the Online Registration Form / Application Form.
- 5. After reading the instructions candidates should move to the Registration Part and fill up the online Registration Part and fill up the online Registration Form.
- 6. In the Registration Part, candidates will have to fill in basic information relating to them. On submission of details, candidates shall be prompted to check the details and make, corrections, if any, before submitting the Form.
- 7. Candidate should provide all the required details while filling up the Online Registration / Application Forms. Mandatory fields are marked with* (asterisk) sign.
- 8. On submission of the Registration Form, a page with Registration ID and password will appear.
- 9. Note down the Registration ID and Password and keep them safely. This would be your permanent Registration ID & Password which would be required to apply for Selection Posts as well as for any other Recruitment Examination of the Commission.
- 10. The photograph must be uploaded in jpg format. The digital size of file of the photographs must be more than 4 KB and less than 20 KB.
- 11. The signature must be uploaded in jpg format. The digital size of signature file must be more than 1 KB and less than 12 KB.
- 12. The Registration becomes complete only after the photograph and signature are uploaded by the candidate.
- 13. After completion of the Registration Part the candidates should proceed to fill up the Online Application Form.
- 14. Candidates already registered earlier can directly log into the system and proceed to fill up the Application Form.
- 15. Candidates should read the instructions in the Notice carefully before filling up the Online Application Form.
- 16. Request for change / correction in the Application Form shall not be entertained under any circumstances.
- 17. The application form without photograph / signature or with Blurred photograph / signature or incomplete in any manner will summarily be rejected.
- 18. The facility of online application (including payment of fees through SBI net banking / Credit or debit cards of any banks) will be available from 21-10-2017 to 17-11-2017 (upto 5.00 PM). However, candidates who wish to make the payment through challan of SBI, may make the payment to designated branches of SBI within the working hours of bank up to 20.11.2017 provided the challan has been generated by them before 5.00 PM of 17.11.2017.

- 19. In case there is any discrepancy in 'one time registration' data filled by the candidate, photograph / signature etc 'One Time Registration' data may be suitably edited before proceeding to fill online application form. The Commission allows editing of information like name, father's name, mother's name, date of birth, gender and matriculation, roll number only once after registration. Therefore, these fields MUST BEENTERED / EDITED VERY CAREFULLY. Other fields in the 'One Time Registration' can be edited once before every exam but prior to submission of application for examination. SUCH EDITING IS ALLOWEED BEFORE SUBMISSION OF APPLICATION ONCE THE APPLICATION HAS BEEN SUBMITTED, NO CHANGE IN 'One Time Registration' and Application data will be allowed.
- 20. To pay fee in cash, candidates should take print-out of the challan generated online after completion of Application Part and deposit the requisite fee in designated branch of State Bank of India and then continue within the stipulated date and time.
- 21. 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.
- 22. The application form without photograph / signature or with Blurred photograph / signature or incomplete in any manner will be rejected summarily

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 (Please see Para 4(B) of the Notice)	e candidate is working).
It is certified that *Shri/Smt./Km.	is a Central Government
Civilian employee holding the post of	
Rswith 3 years regular service in the	
There is no objection to his appearing for the Junior Engineers 2015 and/or interview cum personality test of the Examination.	(Civil, Electrical etc.) 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	ding to the information availabl	e with me (No.)	
(Rank)	(Name)		_ is due to complete
the specified term of his e	ngagement with the Armed Forc	es 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*				on/daughte
of		•		Division*
of	the	State/Unior		Territory ³
•		ibe		which
is recognized as a Scheduled Castes/Scheduled T	ribes* und	er:-		
The Constitution (Scheduled Castes) order, 1950				
The Constitution (Scheduled Tribes) order, 1950				
The Constitution (Scheduled Castes) Union Terri				
The Constitution (Scheduled Tribes) Union Terri				
As amended by the Scheduled Castes and Schedu	ıled Tribes	Lists(Modification)	
order, 1956, the Bombay Reorganization Act, 196	50 & the P	unjab Reorganizatio	on	
Act, 1966, the State of Himachal Pradesh Act 197	70, the No	th-Eastern		
Area(Reorganization) Act, 1971 and the Schedule	ed Castes a	and Scheduled Tribe	es	
Order(Amendment) Act, 1976.				
The Constitution (Jammu & Kashmir) Scheduled	Castes Or	der, 1956		
The Constitution (Andaman and Nicobar Islands)	Schedule	d Tribes Order, 195	9 as	
amended by the Scheduled Castes and Scheduled	Tribes ord	ler (Amendment Ac	et), 1976*.	
The Constitution (Dadra and Nagar Haveli) Sche	duled Cast	es order 1962.		
The Constitution (Dadra and Nagar Haveli) Sche	duled Trib	es Order 1962@.		
The Constitution (Pondicherry) Scheduled Castes	Order 196	54@		
The Constitution (Scheduled Tribes) (Uttar Prade	sh) Order,	1967 @		
The Constitution (Goa, Daman & Diu) Scheduled	l Castes O	der, 1968@		
The Constitution (Goa, Daman & Diu) Scheduled	l Tribes O	der 1968 @		
The Constitution (Nagaland) Scheduled Tribes O		@		
The Constitution (Sikkim) Scheduled Castes Order	er 1978@			
The Constitution (Sikkim) Scheduled Tribes Order	er 1978@			
The Constitution (Jammu & Kashmir) Scheduled		der 1989@		
The Constitution (SC) orders (Amendment) Act,				
The Constitution (ST) orders (Amendment) Ordin				
The Constitution (ST) orders (Second Amendmen	•			
The Constitution (ST) orders (Amendment) Ordin	nance 1996	Ó		

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 village/town*____ Shri/Srimati/Kumari*_____ _of the State/ Union _____ in District/Division* Territory*___ who to belong Caste/Tribe which is recognized as a Scheduled Caste/Scheduled Tribe in the State /Union Territory* issued by the dated Shri/Shrimati/Kumari and /or * his/ her family ordinarily reside(s) in village/ %3. town* of District/Division* of the State/ Union Territory of Signature____ Designation (with seal of office)

Applicable in the case of Scheduled Castes, Scheduled Tribes persons who have migrated

- * Please delete the words which are not applicable
- @ Please quote specific presidential order

Place_____ Date

%2.

% Delete the paragraph which is not applicable.

<u>NOTE:</u> 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.

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

(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	Shri/Smt/Kumari		son	/ daughter
of		of village	e	
	I	District/Division	in	the State
	be	longs to the	Commun	nity which
is recognized as a ba	ackward class unde	er the Government of Inc	dia, Ministry of Social Ju	ustice and
Employment's	Resolution	No		dated
	*			
			er family ordinarily reside	
	Distr	rict/Division of the _	St	tate/Union
•	•	•	the persons/sections(crea	
		dated 08-09-1993.**	ersonnel and Training Go	yveriiment
District Magistrate				
Deputy Commissione	er etc			
Dated				
Seal				

- The authority issuing the certificate may have to mention the details of Resolution of Government of India in which the caste of the candidate's is mentioned as OBC.
- ** As amended from time to time.

Note: The term "Ordinarily used here will have the same meaning as in Section 20 of the Representation of the People Act 1950.

<u>Note:</u> The term "Ordinarily used here will have the same meaning as in Section 20 of the Representation of the People Act 1950.

Annexure-VII (FORM-II)

DISABILITY CERTIFICATE (IN CASE OF AMPUTATION OR COMPLETE PERMANENT PARALYSIS OF LIMBS AND IN CASES OF BLINDNESS)

(See rule 4)

Shri/Smt/KumSon/wife/daughterof Shri Date of BirthAge		TIFICAT	ŕ							(show of th		with
Date of Birth Age ye male/Female Registration No permanent resident of H No Ward/Village/Street Post Office District State Whose photograph is affixed above, and an satisfied that: (A) he/she is a case of: • locomotor disability • blindness (Please tick as applicable) (B) the diagnosis in his/her case (A) He/She has	Γhis	is	to	certif	y	that	I	have	ca	refully	exa	mined
male/Female	Shri/S	mt/Kum	<u> </u>		Sc	n/wife	e/daugh	terof Shri	i			
No	Date	of	Birth_				Age					years,
Office	nale/I	Female_		Regis	stration	No			_ perm	anent r	esident of	Home
Whose photograph is affixed above, and an satisfied that: (A) he/she is a case of: • locomotor disability • blindness (Please tick as applicable) (B) the diagnosis in his/her case	No			Ward/	Village	Street_			Post			
 (A) he/she is a case of: locomotor disability blindness (Please tick as applicable) (B) the diagnosis in his/her case	Office_			_District		State			·			
 locomotor disability blindness (Please tick as applicable) (B) the diagnosis in his/her case	Whose	photograp	oh is aff	ixed above	e, and a	n satisfi	ed that					
 blindness (Please tick as applicable) (B) the diagnosis in his/her case	(A)) he/she is	a case o	of:								
(Please tick as applicable) (B) the diagnosis in his/her case (A) He/She has	•	locomoto	or disabi	ility								
(B) the diagnosis in his/her case	•	blindnes	S									
(A) He/She has		(Please t	ick as ap	oplicable)								
words) permanent physical impairment/blindness in relation his/her(part of body) as per guidelines(to be specified) The applicant has submitted the following document as proof of residence:- Nature of Document Date of Issue Details of authority is	(B)	the diagr	nosis in l	his/her cas	e			 				
his/her(part of body) as per guidelines(to be specified) The applicant has submitted the following document as proof of residence:- Nature of Document Date of Issue Details of authority is	(A)) He/She 1	nas				% (i	n figure)			per	cent(in
2. The applicant has submitted the following document as proof of residence: Nature of Document Date of Issue Details of authority is		words)	pern	nanent	physi	cal	impair	ment/blindn	iess	in	relation	to
Nature of Document Date of Issue Details of authority is		his/her			(part	of body	y) as per	guidelines((to be s	pecified)	
certificate.		Nature o	f Docun	nent	D	ate of Is	ssue		Det	ails of	authority	issuin
									cert	ificate.		
	}											

Signature and seal of Authorised Signatory of notified Medical Authority

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

Annexure-VII (FORM-IV)

DISABILITY CERTIFICATE

(In case other than those mentioned in Forms II and III)

(NAME AND ADDRESS OF THE MEDICAL AUTHORTIY ISSUING THE CERTIFICATE)

(See rule 4)

Recent PP size
Attested
Photograph
(showing face only)
of the person with
disability

Certificate No.					Date:	
This is to	certify	that	I	have	carefully	examined
Shri/Smt/Kum			Son/wi	fe/daught	ter	of
	Shri]	Date	of Bir	th	Age
:	years, male/Fe	male		_	(DD/MM/	YYY)
Registration No		_ permaner	nt reside	nt of Hous	e No	
Ward/Village/Street		Post	Office_		District	
State	Whose p	hotograph	is affi	xed above	e, and an satisfic	ed that
he/She is a Case of _		disabili	ity. His	her exten	t of percentage p	hysical
impairment/disability	has been evalu	ated as	per gui	delines(to	be specified) if	for the
disabilities (to be speci	fied) and is show	n against 1	the relev	ant disabi	lity in the table be	low:-

S.No	Disability	Affected	Diagnosis	Permanent	physical
		part of the		impairment/mental	
		body		disabilities(in %)	
1.	Locomotor disability	@			
2	Low vision	#			
3.	Blindness	Both Eyes			
4.	Hearing impairment	\$			
5.	Mental retardation	X			
6.	Mental-illness	X			

(Please strike out the disabilities which are not applicable)

(2)	The above condition is progres	ss/non progress/likely to	improve/not likely to	o improve.
3.	Reassessment of disability is:			
(i)	not necessary			
Or				
(ii)	is recommended/after _	years	months,	and therefore this
certif	icate shall be valid till			
		(DD)	(MM)	(YY)
@ e.g	g. Left/Right/both arms/Legs			
# e.	g. Single eye/both eyes			
\$ e.g	g. Left/Right/both ears.			
4.	The applicant has submitted	the following document a	as proof of residence	·.
Natu	are of Document	Date of issue	Details of	authority issuing
			certificate	
		Authorised Sig	gnatory of notified l	Medical Authority.
				(Name and Seal)
			ignature and seal of ad of Government H	
		-	te issued by a medic	al authority who is
Signs	nture/Thumb		not a permanent	servant(with seal)
impr	ession of the			
	on in whose or disability			
	ïcate is issued.			

Note: In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer on the District.

Educational Qualification Code

Educational Qualification	Code
Diploma	04
BE	13
B.Tech.	14
AMIE (Part A & Part B)	15
B.Sc. (Engg.)	16
Graduation Certificate issued by Defence (Indian Army, Air Force, Navy)	19
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	36
of the Institute of Surveyors(India)	
Direct Final Examination in Buildings and Quantity Surveying Sub.Div.II	37
of the Institute of Surveyors (India)	

Subject Code for Educational Qualification

Subject of Educational Qualification					
Civil Engineering					
Electrical Engineering					
Mechanical Engineering					
Electronics Engineering					
Electronics & Power Engineering	20				
Electronics & Communication Engineering	21				
Electrical and Instrumentation Engineering	22				
Agriculture Engineering	23				
Computer Science	24				
Computer Application	25				
Information Technology	26				
Others	48				
Electrical & Electronics Engineering	49				
Electrical/Power Engineering					
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.					
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)					
Post Graduation in Engineering	66				
Building & Quantity Surveying	67				

Annexure-X

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
10	Engineering.
10	Diploma in Civil Engineering with specialization in Architecture & Town
11	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)