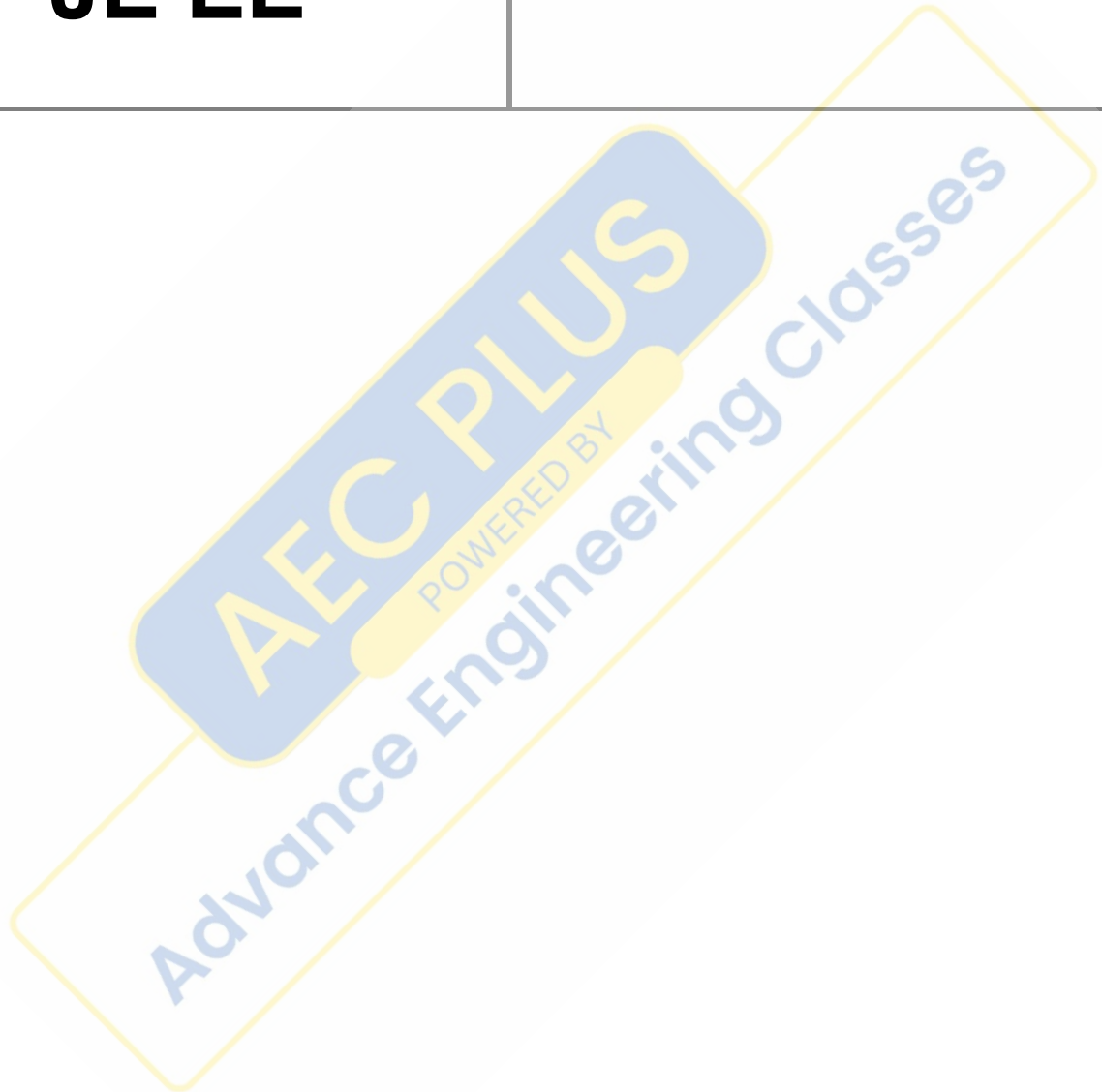


**RRB
JE EE**

**Previous Year Paper
21 Dec 2014 Shift 3**



QUESTION BOOKLET

Duration : 120 Minutes समय : 120 मिनट		Exam Code : TSG001 परीक्षा कोड :	
No. of Pages / पृष्ठों की संख्या : 240		Total Marks / कुल अंक : 150	
Roll No. : अनुक्रमांक :		Question Booklet No. प्रश्न पुस्तिका संख्या :	7063660
Date of Examination : परीक्षा तिथि :		OMR Answer Sheet No. OMR उत्तर शीट क्रमांक	
Candidate's Name / परीक्षार्थी का नाम		Candidate's Signature / परीक्षार्थी के हस्ताक्षर	
*** As given in application form / आवेदन पत्र में दिये गये ***			
CANDIDATE SHOULD OPEN THE SEALS ONLY AFTER THEY ARE ASKED TO DO SO. परीक्षार्थी निर्देश मिलने पर ही सील खोलें।			

The question paper is made up of the following sections as tabulated below.
निम्न तालिका में दर्शाये अनुसार, इस प्रश्न पत्र को निम्नलिखित भागों में विभाजित किया गया है।

Section / भाग	Language / भाषा	No. of Questions / प्रश्नों की संख्या	Pages / पृष्ठ	
			From / से	To / तक
Section-I	English / अंग्रेजी	150	15	34
Section-II	Hindi / हिन्दी	150	35	58
Section-III	Urdu / उर्दू	150	59	78
Section-IV	Assamese / असामी	150	79	98
Section-V	Bengali / बंगाली	150	99	118
Section-VI	Gujarati / गुजराती	150	119	138
Section-VII	Kannada / कन्नड़	150	139	158
Section-VIII	Manipuri / मणिपुरी	150	159	178
Section-IX	Marathi / मराठी	150	179	198
Section-X	Odia / उड़िया	150	199	218
Section-XI	Telugu / तेलगू	150	219	238

English Paragraph : All the details given by me in the Application Form are true and complete to the best of my knowledge. I understand that I may be issued with Call letter for the exam on the basis of above information and mere issue of call letter will not confer on me any right to be eligible for the post. I also understand that in case any of my statements are found to be untrue at any stage of recruitment or thereafter, I shall be disqualified forthwith for the post applied for and I shall be liable for any other penal action under the extant rules.

हिन्दी पैराग्राफ : आवेदन पत्र में मेरे द्वारा दिया गया सभी विवरण मेरी अधिकतम जानकारी के अनुसार सत्य और पूर्ण है। मैं समझता/समझती हूँ कि मुझे परीक्षा के लिए उपर्युक्त सूचना के आधार पर बुलावा पत्र जारी किया जाएगा और केवल बुलावा पत्र जारी करना पद के लिए पात्र होने का मुझे कोई अधिकार नहीं देता है। मैं यह भी समझता/समझती हूँ कि यदि मेरा विवरण भर्ती के किसी चरण पर या तत्पश्चात असत्य पाया जाता है, तो मैं आवेदित पद के लिए तत्काल निर्हरक हो जाऊंगा/जाऊंगी और मुझ पर लागू नियमों के तहत कोई अन्य दंडात्मक कार्रवाई की जाएगी।

Signature of invigilator / निरीक्षक के हस्ताक्षर	Centre / सेंटर	Deptt. / डिपार्टमेंट
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TSG001414

2004

INSTRUCTIONS

(Please read carefully and comply)

1. Kindly read the complete set of instructions carefully and also see the instructions on the back side of the OMR Answer Sheet and fill the details in the OMR Answer Sheet and Question Booklet.
2. One paragraph each in Hindi and English is given on page 1. Copying of the paragraph (in the language as filled in the application form either in Hindi or English) in your running hand is compulsory. **DO NOT USE BLOCK LETTERS.**
3. (a) Question Booklet Serial No. must clearly be written and marked in the bubbles in the space provided in the OMR Answer Sheet.
(b) OMR Sheet No. should be written in the space provided in the Question Booklet.
4. After being instructed to open the Booklet, the candidates will open the Seals. Check whether the booklet contains **150** questions and start the paper from Page No. **15**.
5. The question paper comprises **150** questions available in congruent versions of **English, Hindi, Urdu, Assamese, Bengali, Gujarati, Kannada, Manipuri, Marathi, Odia, Telugu**. In case of any doubt or confusion, English version shall prevail.
6. All Questions are of Objective type. There is only one correct answer/best answer to each question carrying one mark. There will be negative marking for wrong answers. For every wrong answer, $1/3$ mark will be deducted.
7. In the event of any mistake in any question/s, candidate will not be penalized. However, no corrections will be made in question/s during the examination.
8. You must use Blue or Black ball-point pen only for answering. Altering of answers once entered is not permissible. Enter the answers in the OMR Answer Sheet carefully.
9. Rough work, if any, may be done in the Question Booklet only in the space provided at the end of the Booklet or at any specified space. No additional paper shall be provided.
10. Use of Log tables, Calculator, Slide Rule, Mobile Phone, Pager, Digital diary or any other electronic item/instrument etc. is not allowed. Their use will result in disqualification.
11. No candidate should leave the examination hall before the final bell. The top sheet of Question Booklet as well as the Answer Sheet should be handed over to the invigilator before leaving the Examination Hall.

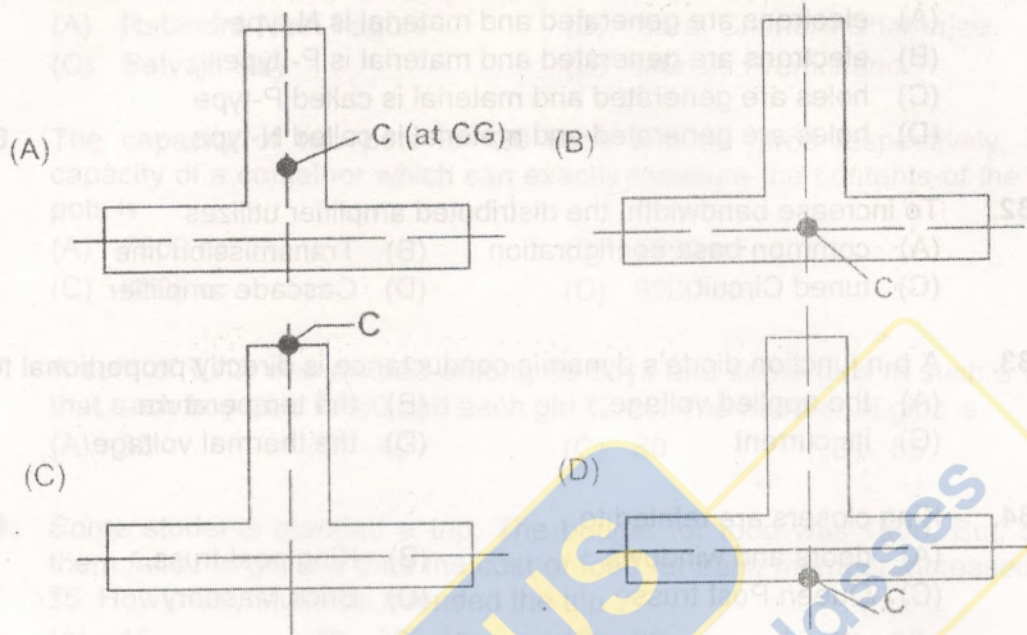
7. What term is used to designate the direction of the predominant surface pattern produced by machining operation ?
(A) Roughness (B) Lay
(C) Waviness (D) Cut off
8. Steady State Heat flow implies
(A) negligible flow of heat
(B) no difference of temperature between the bodies
(C) constant heat flow rate i.e. heat flow rate independent of time
(D) uniform rate in temperature rise of a body
9. What is the main shaft of an engine that controls the movement of piston ?
(A) axle (B) drive shaft
(C) crank shaft (D) cam shaft
10. For small and intricate castings, the sand grains should be
(A) fine (B) medium
(C) coarse (D) rounded
11. In Submerged Arc Welding, the arc is produced between
(A) a bare metal electrode and work piece
(B) a tungsten electrode and work piece
(C) a carbon electrode and work piece
(D) any type of electrode can be used
12. For Welding process, which is NOT correct.
(A) Welding size depends on contact area of the face of Electrodes
(B) Metal fusion takes place by raising the temperature to fusion point
(C) In Pressure welding, the ends of metals pieces are joined in Elastic state
(D) Gas flame is used as heat source in gas welding
13. In overhead welding position, which is correct option.
(A) work pieces lie flat, welding is done from upper side of joint
(B) welding is performed from the underside of joint
(C) this position is most simple operation as compared to flat position
(D) most suitable for Submerged Arc process
14. Soft iron is used in the manufacture of electromagnets because of its
(A) high saturation magnetisation only
(B) low retentivity only
(C) low coercive field only
(D) high saturation magnetisation, low retentivity and low coercive field
15. Which of the following is piezo-electric material ?
(A) Quartz (B) Silica Sand
(C) Corundum (D) Polystyrene

16. Which three-phase connection can be used in a transformer to introduce a phase difference of 30° between its output and corresponding input line voltages ?
(A) Star-Delta (B) Star-Star
(C) Delta-Delta (D) Delta-Zigzag
17. If two conductors carry current in the same direction
(A) Conductors attract each other
(B) Conductors are in resonance
(C) Conductors repel each other
(D) Voltage between two conductors increases
18. According to Joule's Law, heat energy produced by a Current I while flowing through a conductor of Resistance R for a Length L and Time T , is proportional to
(A) T only (B) I^2RT
(C) I^2RL (D) IRL^2
19. Reciprocal of magnetic permeability is
(A) Conductance (B) Susceptance
(C) Reluctivity (D) Permittivity
20. A material is said to have become superconductor when
(A) its resistance becomes negative
(B) its resistance becomes very small
(C) its resistance decreases
(D) its resistance becomes zero
21. When a given transformer is operating at its rated voltage with reduced frequency, its
(A) Iron losses are reduced (B) Flux density remains unaffected
(C) Core flux density is increased (D) Core flux density is reduced
22. The armature core of a d.c. machine is usually made of laminated sheets in order to
(A) reduce hysteresis loss
(B) reduce armature copper losses
(C) reduce eddy current
(D) increases its surface area for better dissipation of heat
23. To reduce air pollution due to smoke, _____ are used in thermal power plants.
(A) reheaters (B) superheaters
(C) induced draft fans (D) Electrostatic precipitators

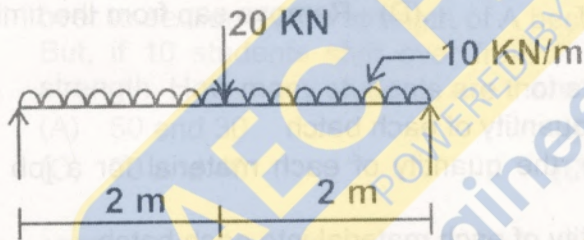
24. Match Col. X (Instrument) with Col. Y (Use)
- | <u>Col. X</u> | <u>Col. Y</u> |
|----------------|---|
| P Transformer | 1 Measures Current |
| Q Rectifier | 2. Insulation Resistance |
| R Ammeter | 3. Steps down Voltage |
| S Megger meter | 4. Converts AC input to Unipolar output |
- (A) P-3, Q-4, R-1, S-2 (B) P-3, Q-1, R-4, S-2
 (C) P-4, Q-3, R-2, S-1 (D) P-3, Q-1, R-2, S-4
25. FET is a device which has
- (A) high input impedance and is current controlled
 (B) low input impedance and is voltage controlled
 (C) high input impedance and is voltage controlled
 (D) low input impedance and is current controlled
26. Which gate corresponds to the action of parallel switches ?
- (A) AND gate (B) OR gate
 (C) NAND gate (D) NOR gate
27. Which of the following contributes to harmonics distortion in amplifiers?
- (A) Non-linearity in active device (B) defective device
 (C) presence of noise (D) positive feedback
28. Select the Statement which is NOT correct.
- (A) The magnetic amplifier is device for amplifying electrical signals
 (B) A transistor is composed of semiconductor material
 (C) p-n diode is based upon p-n junction
 (D) Potentiometer controls audio signals
29. The main advantage of a bridge rectifier over full wave rectifier with centre tapped transformer is
- (A) less ripple
 (B) No transformer is needed
 (C) peak inverse voltage of each diode is half
 (D) PIV of each diode is double
30. Wheatstone bridge is used to measure
- (A) low values of current and high values of current
 (B) high values of current
 (C) Low value of voltages
 (D) resistance values

31. When donor type impurity is added to a semi-conductor material
 (A) electrons are generated and material is N-type
 (B) electrons are generated and material is P-type
 (C) holes are generated and material is called P-type
 (D) holes are generated and material is called N-type
32. To increase bandwidth, the distributed amplifier utilizes
 (A) common base configuration (B) Transmission line
 (C) tuned Circuit (D) Cascade amplifier
33. A p-n junction diode's dynamic conductance is directly proportional to
 (A) the applied voltage (B) the temperature
 (C) its current (D) the thermal voltage
34. King closers are related to
 (A) doors and windows (B) King post truss
 (C) Queen Post truss (D) Brick Masonry
35. Seasoning of timber is required to
 (A) Soften the timber (B) Harden the timber
 (C) Straighten the timber (D) Remove sap from the timber
36. Batching in concrete refers to
 (A) Controlling the total quantity of each batch
 (B) Weighing accurately, the quantity of each material for a job before mixing
 (C) Controlling the quantity of each material into each batch
 (D) Adjusting the water to be added in each batch according to the moisture content of the materials being mixed in the batch
37. Gypsum is used as an admixture in cement grouts for
 (A) accelerating the setting time
 (B) retarding the setting time
 (C) increasing the plasticity
 (D) reducing the grout shrinkage
38. The maximum deflection of a fixed beam carrying a central load W is equal to (other notations standard)
- (A) $\frac{WL^3}{48EI}$ (B) $\frac{WL^3}{96EI}$
 (C) $\frac{WL^3}{192EI}$ (D) $\frac{5}{384} \frac{WL^3}{EI}$

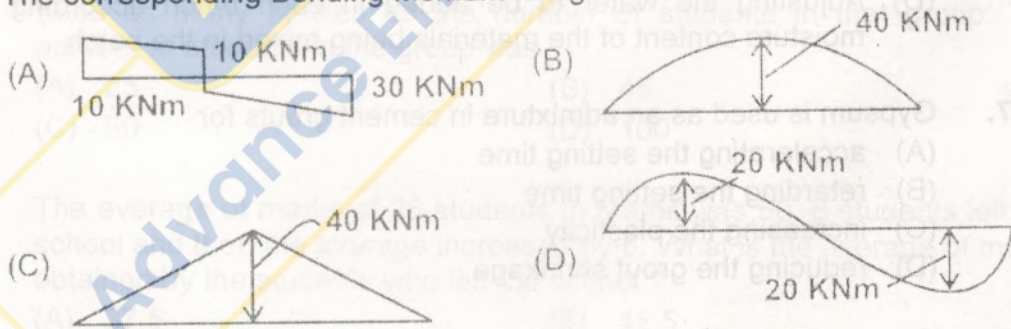
39. In a thin-wall T-section, the shear centre C is located at the point shown in



40. A simply supported beam is loaded as below

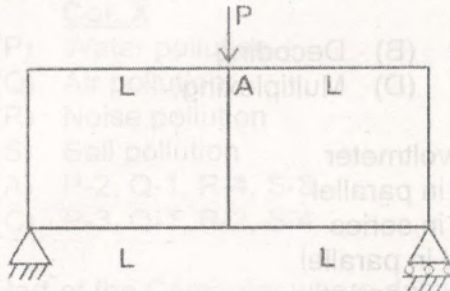


The corresponding Bending Moment Diagram is



41. What is the radius of Mohr's circle in case of bi-axial state of stress ?
- Half the sum of the two principal stresses
 - Half the difference of the two principal stresses
 - Difference of the two principal stresses
 - Sum of the two principal stresses

42. What is the moment at A for a frame shown below :



Each vertical member has very large Moment of Inertia

- (A) $\frac{PL}{2}$ (B) $\frac{PL}{4}$
(C) $\frac{PL}{8}$ (D) $\frac{PL}{16}$
43. A structure has two degree of indeterminacy. The number of plastic hinges that would be formed at complete collapse is
(A) 0 (B) 1 (C) 2 (D) 3
44. For laminar flow between parallel plates separated by a distance $2h$, head loss varies
(A) directly as h (B) inversely as h
(C) directly as h^2 (D) Inversely as h^3
45. In Surveying, Offsets are
(A) lateral measurements made with respect to main survey line
(B) perpendiculars erected from chain lines
(C) taken to avoid unnecessary walking between stations
(D) measurements which are not made at right angles to the chain line
46. The true length of a line is known to be 200 m. When this is measured with a 20 m tape, the length is 200.8 m. The correct length of the 20 m tape is
(A) 19.92 m (B) 19.98 m
(C) 20.04 m (D) 20.08 m
47. Shear failure of soils takes place when
(A) the angle of obliquity is maximum
(B) maximum cohesion is reached in cohesive soils
(C) ϕ reaches its maximum value in cohesionless soils
(D) residual strength of the soil is exhausted

48. What is the process of utilizing one data link for transmission of a group of variables known as ?
- (A) Encoding (B) Decoding
(C) Demultiplexing (D) Multiplexing
49. In order to increase the range of a voltmeter
- (A) a low resistance is connected in parallel
(B) a low resistance is connected in series
(C) a high resistance is connected in parallel
(D) a high resistance is connected in series
50. The internal resistance of the milliammeter must be very low for
- (A) high accuracy
(B) high sensitivity
(C) minimum effect on the current in the circuit
(D) maximum voltage drop across the meter
51. In order to have fast, steady and accurate responses, the meters should have
- (A) Critical damping
(B) Under damping
(C) a very high damping coefficient
(D) No damping
52. In case of overdamping, the instrument will become
- (A) Oscillating (B) dead
(C) fast and sensitive (D) slow and lethargic
53. In reference to Acid rain, what is correct statement.
- (A) The pH value is below 5.6
(B) It occurs due to presence of sulphuric acid or nitric acid in the atmosphere
(C) Maximum acid is due to strong Carbonic Acid
(D) Acid rain affects ecosystem
54. In Global Warming, the major contribution is due to
- (A) Carbon emission (B) Agriculture
(C) Deforestation (D) Industry
55. Which of the following mechanisms is NOT for removing particulate matter from gas streams.
- (A) Gravitational settling (B) Centrifugal impaction
(C) Electrostatic precipitation (D) Burning the particulate
56. Which one of the following is NOT Biotic components of ecology.
- (A) Consumers (B) Producers
(C) Decomposers (D) Climate

57. Match Col. X (Result) and Col. Y (Cause)

<u>Col. X</u>	<u>Col. Y</u>
(P) Water pollution	1. Combustion of fossil fuel
(Q) Air pollution	2. Decaying of organic matter
(R) Noise pollution	3. Pesticides
(S) Soil pollution	4. High decibel
(A) P-2, Q-1, R-4, S-3	(B) P-1, Q-2, R-4, S-3
(C) P-3, Q-1, R-2, S-4	(D) P-1, Q-3, R-2, S-4

58. Part of the Computer where data and instructions are held is

- (A) Register Unit (B) Accumulator
(C) Memory Unit (D) CPU

59. In a Computer, Assembler is

- (A) a program that places programs into memory and prepares them for execution
(B) a program that automate the translation of assembly language into machine language
(C) a program that accepts a program written in a high level language and produces an object program
(D) is a program that appears to execute a source program if it were machine language

60. Which of the following is NOT a register in Computer ?

- (A) Accumulator (B) Stack Pointer
(C) Program Counter (D) Buffer

61. Which Network protocol is used to send e-mail ?

- (A) FTP (B) SSH (C) POP 3 (D) SMTP

62. The use of a cache in Computer system increases the

- (A) available memory space for the program
(B) available memory space for the data
(C) available speed of memory access
(D) addressing range of CPU

63. A microprocessor has 24 address lines and 32 data lines. If it uses 10 bits of opcode, the size of its Memory Buffer Register is

- (A) 22 bits (B) 24 bits
(C) 32 bits (D) 14 bits

64. In a microprocessor when a CPU is interrupted, it

- (A) Stops execution of instructions
(B) Acknowledges interrupt and branches off subroutine
(C) Acknowledges interrupt and continues
(D) Acknowledges interrupt and waits for the next instruction from the interrupting device

65. The MODEM is used with a personal computer to do which of the following ?
 (A) Convert from serial to parallel and vice versa
 (B) Convert signals between TTL and RS232 C standard and vice versa
 (C) Convert from digital to analog signals and vice versa
 (D) To convert the computer to a long distance communication link
66. The term digitization refers to
 (A) conversion of analogue into digital
 (B) conversion of digital into analogue
 (C) use of analogue form of electricity
 (D) a form of changing physical quantities
67. Which is NOT a Wireless Technology.
 (A) Blue Tooth (B) A conventional telephone
 (C) Wi-fi (D) Wi-Max
68. In an Engineering drawing, in double stroke Gothic lettering, which is correct.
 (A) Letters are drawn thin
 (B) The lettering template is used to draw the outline of letter
 (C) This is not preferred for ink drawings
 (D) This is having non-uniform line width
69. Match Col. X (Category) and Col. Y (Recommended Scale) in reference to an Engineering drawing.
- | | <u>Col. X</u> | | <u>Col. Y</u> |
|---|-----------------|----|---------------|
| P | Enlarging Scale | 1. | 1 : 500 |
| Q | Full Scale | 2. | 10 : 1 |
| R | Reducing Scale | 3. | 1 : 1 |
| | | 4. | 1 : 20 |
- (A) P - 4, Q - 1, R - 2, P - 3 (B) P - 2, Q - 3, R - 4, R - 1
 (C) P - 1, Q - 3, R - 2, P - 4 (D) P - 2, Q - 1, R - 4, Q - 3
70. If RF is $1/60000$ and distance to be shown on drawing is 7.5 km, what is the length of line on drawing ?
 (A) 12.5 cm (B) 8 cm (C) 45 cm (D) 10 cm
71. A parabola can be constructed on a drawing by the methods EXCEPT
 (A) Eccentricity Method (B) Rectangle Method
 (C) Parallelogram Method (D) Asymptote Method
72. Which of the Statements is NOT correct.
 (A) Isometric scale is used to draw isometric projection
 (B) Isometric scale is not used to draw isometric view
 (C) A square is seen as rectangle in isometric
 (D) A rectangle is seen as parallelogram in isometric

73. A particle moves along a circular path with constant speed. What is the nature of its acceleration ?
- (A) It is zero (B) It is Uniform
(C) Its direction changes (D) Its magnitude changes

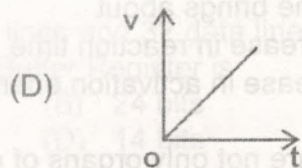
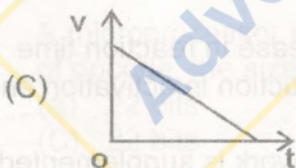
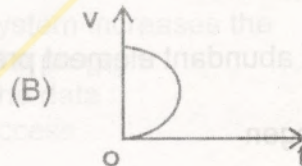
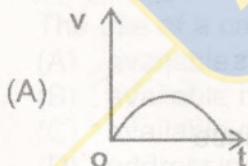
74. A body is at rest on the surface of the earth. Which of the following Statements is correct ?
- (A) No force is acting on the body
(B) Only weight of the body acts on it
(C) Net downward force is equal to net upward force
(D) None of these is correct

75. The Specific Heat of the gas in an isothermal process is
- (A) Zero (B) Infinite
(C) Negative (D) Remains constant

76. In a Simple Harmonic Oscillator, at the mean position
- (A) Kinetic Energy is minimum, Potential Energy is maximum
(B) Both Kinetic and Potential Energies are maximum
(C) Kinetic Energy is maximum, Potential Energy is minimum
(D) Both Kinetic and Potential Energies are minimum

77. Mirage is a phenomenon due to
- (A) Reflection of light (B) Refraction of light
(C) Total Internal reflection of light (D) Diffraction of light

78. Which of the following cannot be speed-time (v-t) graph of a body in motion ?



79. Avogadro's number, N_A means
- (A) number of protons in nucleus of an atom
(B) number of atoms in one gram atom of an element
(C) sum of the number of protons and the neutrons in the nucleus of an atom
(D) number of protons or electrons in one gram of Sodium

80. Isotopes of the same element have
(A) Same number of neutrons
(B) Same atomic mass
(C) Same number of protons
(D) Different atomic number
81. In a reaction between Zinc and Iodine, Zinc Iodide is formed. What is being oxidised ?
(A) Zinc ions
(B) Iodide ions
(C) Zinc Atom
(D) Iodine
82. Which of the following halogens is the best oxidising agent ?
(A) F_2 (B) Cl_2 (C) Br_2 (D) I_2
83. Nitrogen is used to fill electric bulbs because it
(A) is lighter than air
(B) makes the bulb to give more light
(C) does not support combustion
(D) is non-toxic
84. Froth floatation process for the concentration of Ores is an illustration of the practical application of
(A) Adsorption
(B) Absorption
(C) Coagulation
(D) Sedimentation
85. The process of increasing fertility of soil by earthworms is known as
(A) Organic farming
(B) Vermicomposting
(C) Eutrophication
(D) Worm Casting
86. The most abundant element present in the plants is :
(A) Iron
(B) Carbon
(C) Nitrogen
(D) Manganese
87. An enzyme brings about
(A) Decrease in reaction time
(B) Increase in reaction time
(C) Increase in activation energy
(D) Reduction in activation energy
88. Kidneys are not only organs of excretion, their work is supplemented by
(A) Liver
(B) Heart
(C) Large intestine
(D) Skin
89. The longest cell in the body of an animal is
(A) Osteocytes
(B) Neuron
(C) Chromatophores
(D) Lymph corpuscles

90. Vitamin needed for blood coagulation is
 (A) E (B) D (C) K (D) C
91. The 1929 session of Indian National Congress is of significance in the history of the Freedom Movement because the
 (A) attainment of Self-Government was declared as the objective of the Congress
 (B) attainment of Poorna Swaraj was adopted as the goal of the Congress
 (C) Non-Cooperation Movement was launched
 (D) decision to participate in the Round Table Conference in London was taken
92. The movement that came to an abrupt end due to the Chauri Chaura incident was the
 (A) Wahabi Movement (B) Home Rule Movement
 (C) Non-Cooperation Movement (D) Civil Disobedience Movement
93. Match the following:
 P) C.R. Das 1. Bardoli Satyagraha
 Q) Vallabh Bhai Patel 2. Swarajist
 R) Abdul Ghaffar Khan 3. Khilafatist
 S) Maulana Azad 4. Khudai Khidmatgar
 (A) P-2, Q-1, R-4, S-3 (B) P-2, Q-4, R-1, S-3
 (C) P-4, Q-1, R-3, S-2 (D) P-2, Q-1, R-3, S-4
94. Money can be spent out of the Consolidated Fund of India
 (A) with the approval of the President
 (B) with the approval of the Parliament
 (C) with the approval of the CAG
 (D) with the approval of the above authorities
95. Which of the following is not a condition for becoming a Citizen of India ?
 (A) Birth (B) Descent
 (C) Acquiring property (D) Naturalisation
96. The Oath of Office is conducted to the President of India by
 (A) The Speaker of Lok Sabha (B) The Chief Justice of India
 (C) The Vice-President of India (D) The Prime-Minister of India
97. Dew is caused when
 (A) humid air condenses on cool surface
 (B) the sky is overcast at night
 (C) the air is colder than the earth's surface
 (D) the wind is too dry to cause rainfall

98. Corbett National Park is in
 (A) Bihar (B) Madhya Pradesh
 (C) Uttarakhand (D) Himachal Pradesh
99. Which crop requires water-logging for its cultivation ?
 (A) Tea (B) Coffee
 (C) Rice (D) Mustard
100. One can open a Savings Account in India except in
 (A) A Nationalised Bank (B) A Cooperative Bank
 (C) a Private Bank (D) Reserve Bank of India
101. The Term "Inside Trading" is related to
 (A) Share Market (B) Horse racing
 (C) Taxation (D) Public expenditure
102. The term MOM was in news in relation to
 (A) CAG report (B) Asian Games
 (C) Mangalyaan (D) Election Commission
103. Merdeka Cup is associated with
 (A) International Table Tennis (B) Badminton
 (C) Hockey (D) International Football
104. Recently, referendum for independence was held in
 (A) Hongkong (B) Ireland
 (C) Scotland (D) Germany
105. Match Col. X (Sportsperson) and Col. Y (Sports) :
- | <u>Col. X</u> | <u>Col. Y</u> |
|------------------------|------------------------|
| P. Jitu Rai | 1. Badminton |
| Q. Heena Sidhu | 2. Wrestling |
| R. Jwala Gutta | 3. Shooting |
| S. Yogeshwar Dutt | |
| (A) P-3, Q-3, R-1, S-2 | (B) P-2, Q-3, R-1, S-2 |
| (C) P-2, Q-2, R-1, S-3 | (D) P-3, Q-1, R-1, S-2 |
106. Which of the following celebrities was recently appointed as "Brand Ambassador" of Telengana?
 (A) Deepika Pallikal (B) VVS Laxman
 (C) Saina Nehwal (D) Sania Mirza

107. EBOLA is a
(A) virus disease confirmed in West Africa
(B) name of Tsunami
(C) Name of anti-terrorist operation in Arab Country
(D) volcano in African Hills
108. BKS Iyengar, who died recently, was a world renowned _____
(A) Yoga Guru (B) Artist
(C) Folk Singer (D) Film Director
109. Which Country has recently launched "Gandhi Inspired Tourist Attraction Project" ?
(A) England (B) South Africa
(C) USA (D) Japan
110. Who among the following has designed the logo and slogan of the "Swachh Bharat Abhiyan"
(A) Neelam Bhattacharjee (B) Anant and Bhagyashree
(C) Uday Kumar (D) Virman Kohli
111. The slogan of Asian Games Incheon 2014 was
(A) Green, Clean and Friendship
(B) We Cheer, We Share, We Win
(C) Diversity Shines here
(D) The Games of Your Life
112. "The "Helmand Province" of Afghanistan is famous for cultivation of
(A) Tobacco (B) Wheat
(C) Cotton (D) Opium
113. Main objective of newly announced "Pradhanmantri Jan-Dhan Yojna" is _____ ?
(A) to provide a bank account to every poor
(B) to provide a interest free loan to farmers
(C) to provide financial assistance to tribal communication
(D) to provide free medical facility to minority people
114. Consider the following pairs :
1. Garba : Gujarat
2. Mohiniattam : Odisha
3. Yakshagana : Karnataka
Which of the pairs given above is/are correctly matched ?
(A) 1 only (B) 2 and 3 only
(C) 1 and 3 only (D) 1, 2 and 3

115. Devdas and Parinita are Principal literary works by
 (A) Rabindra Nath Tagore (B) Sarat Chandra Chatterjee
 (C) Satyajit Ray (D) Munshi Premchand
116. The capacity of two pots is 120 litres and 56 litres respectively. The capacity of a container which can exactly measure the contents of the two pots is
 (A) 7500 cc (B) 7850 cc
 (C) 8000 cc (D) 9500 cc
117. A sum of ₹312 was divided among 60 boys and some girls in such a way that each boy gets ₹3.60 and each girl ₹2.40. The number of girls is
 (A) 35 (B) 40 (C) 60 (D) 65
118. Some students planned a trip. The budget for food was ₹500. But, 5 of them failed to go and thus the cost of food for each member increased by ₹5. How many students attended the trip?
 (A) 15 (B) 20 (C) 25 (D) 30
119. In a class, there are two sections A and B. If 10 students of section B shift over to section A, the strength of A becomes three times the strength of B. But, if 10 students shift over from A to B, both A and B are equal in strength. How many students are there in sections A and B?
 (A) 50 and 30 (B) 45 and 15
 (C) 90 and 40 (D) 80 and 40
120. 1250 articles were distributed among students of a class. Each student got twice as many articles as the number of students in that group. The number of students in the group was :
 (A) 25 (B) 45
 (C) 50 (D) 100
121. The average of marks of 28 students in Maths was 50. 8 students left the school and then the average increased by 5. What is the average of marks obtained by the students who left the school?
 (A) 37.5 (B) 42.5
 (C) 45 (D) 50.5
122. Six persons went to a hotel for meals. Five of them spent ₹32 each on their meals while the 6th person spent ₹80 more than the average expenditure of all the six. Total money spent by all the persons is :
 (A) ₹192 (B) ₹240
 (C) ₹288 (D) ₹336

123. The sum of two numbers is 2490. If 6.5% of one number is equal to 8.5% of the other, the greater number is :
- (A) 1079 (B) 1380
(C) 1411 (D) 1250
124. X is 40 years old and Y is 60 years old. How many years ago was the ratio of their ages 3 : 5 ?
- (A) 5 years (B) 10 years
(C) 20 years (D) 37 years
125. In measuring the sides of a rectangle, errors of 5% and 3% in excess are made. The error percent in the calculated area is
- (A) 8.35% (B) 7.15%
(C) 8.15% (D) 6.25%
126. If a frame is sold at ₹60, there is a loss of 15%. For a profit of 2%, the frame is to be sold at
- (A) ₹70 (B) ₹72 (C) ₹75 (D) ₹85
127. On selling 100 pens, a shopkeeper gains price of 20 pens, His gain percent is
- (A) 25% (B) 20% (C) 15% (D) 12%
128. ₹680 is divided among A, B, C such that A gets $\frac{2}{3}$ of what B gets and B gets $\frac{1}{4}$ of what C gets. Then their shares are respectively
- (A) ₹75, ₹325, ₹280 (B) ₹80, ₹120, ₹480
(C) ₹90, ₹210, ₹380 (D) ₹100, ₹200, ₹380
129. X, Y and Z start a business. X invests 3 times as much as Y invests and Y invests $\frac{2}{3}$ rd of what Z invests. Then the ratio of capitals of X, Y, Z is
- (A) 3 : 9 : 2 (B) 6 : 10 : 15
(C) 5 : 3 : 2 (D) 6 : 2 : 3
130. A man, a woman and a boy can together complete a piece of work in 3 days. If a man alone can do it in 6 days and a boy alone in 18 days, how long will a woman take to complete the work?
- (A) 9 days (B) 21 days
(C) 24 days (D) 27 days

131. A tap can fill a cistern in 8 hours and another tap can empty it in 16 hours. If both the taps are open, the time taken to fill the tank will be
- (A) 8 hrs. (B) 10 hrs.
(C) 16 hrs. (D) 24 hrs.
132. Two trains approach each other at 30 km/hr and 27 km/hr from two places 342 km apart. After how many hours will they meet ?
- (A) 5 hrs. (B) 6 hrs.
(C) 7 hrs. (D) 12 hrs.
133. The speed of a 150 m long train is 50 kmph. How much time will it take to pass a 600 m long platform ?
- (A) 50 sec (B) 54 sec
(C) 60 sec (D) 64 sec
134. In how many years, a sum will be thrice of it at simple interest @10% per annum ?
- (A) 15 years (B) 20 years
(C) 30 years (D) 40 years
135. A sum of money amounts to ₹9680 in 2 years and ₹10648 in 3 years. The rate of interest per annum on compounded basis is
- (A) 5% (B) 10%
(C) 15% (D) 20%
136. The perimeters of a circular field and a square field are equal. If the area of the square field is 12100 m^2 , the area of the circular field will be
- (A) 15500 m^2 (B) 15400 m^2
(C) 15200 m^2 (D) 15300 m^2
137. If the height of a cone is doubled, then the increase in its volume is
- (A) 100% (B) 200%
(C) 300% (D) 400%

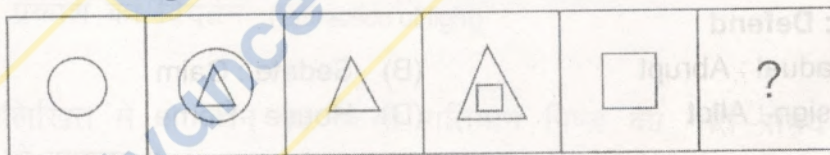
138. An angle is one-fifth of its supplement. The measure of the angle is
 (A) 15° (B) 30° (C) 75° (D) 150°
139. The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 7.5 m away from the wall. The length of the ladder is
 (A) 15 m (B) 14.86 m
 (C) 15.64 m (D) 15.8 m
140. Select the option to replace ? such that pattern in given number series is continued.
 6, 13, 25, 51, 101, ?
 (A) 201 (B) 202 (C) 203 (D) 205
141. Select the option to replace ? in given alphabet series to continue the pattern.
 WFB, TGD, QHG, ?
 (A) NIJ (B) NIK (C) NJK (D) OIK
142. In given letter series, some of the letters are missing which are given in that order in options. Select the correct option.
 _bcdbc_dcabd_bcdbc_dc_bd
 (A) aaaaa (B) ccccc
 (C) bbbbb (D) ddddd
143. Select the option that shows similar relation as between given words.
Attack : Defend
 (A) Gradual : Abrupt (B) Sedate : Calm
 (C) Assign : Allot (D) House : Home
144. Select the option such that relation between words on either side is similar.
 Vigilant : Alert :: Viable : ?
 (A) Active (B) Hopeless
 (C) Feasible (D) Useful
145. Select the odd one out.
 (A) Iron (B) Nickel
 (C) Cobalt (D) Aluminium

146. D is taller than C and E. A is not as tall as E. C is taller than A. D is not as tall as B. Who among them is next to the tallest one ?
 (A) A (B) D
 (C) B or D (D) C
147. X walks 10 km towards North. From there, he walks 6 km towards South. Then, he walks 3 km towards East. How far and in which direction is he with reference to his starting point ?
 (A) 5 km West (B) 5 km North-East
 (C) 7 km East (D) 7 km West

Directions: (Question No. 148 & Question No. 149): Choose the Correct option for given classes.



148. Men, Women, Human Beings
 149. Doctors, Lawyers, Professionals
 150. Select the option to replace ? in Problem Figure to continue the pattern.



Answer Figures

