

RRB 28th August Shift 2

1. For an ideal gas the value of Joule Thomson coefficient is
A. Zero B. 0.5
C. Unity D. Infinite

Ans. A.

2. Perpetual motion machine of second kind violates the
A. First law of thermodynamics
B. Kelvin-planck statement
C. Clausius statement
D. Third law of thermodynamics

Ans. B.

3. The ratio of thermal conductivity to electrical conductivity is equal to
A. Prandtl number B. Schmidt number
C. Lorentz number D. Lewis number

Ans. C.

4. The effectiveness of a fin will be maximum in a environment with
A. Free convection
B. Forced convection
C. Radiation
D. Convection and radiation

Ans. A.

5. With increasing temperature of intake air, IC engine efficiency
A. Decreases
B. Increases
C. Remains same
D. Depends on other factors

Ans. A.

6. Thermal efficiency of CI engine is higher than that of SI engine due to
A. Fuel used
B. Higher compression ratio
C. Constant pressure heat addition
D. Lower compression ratio

Ans. B.

7. The float in the carburettor of a petrol engine controls
A. Flow rate of air
B. Flow rate of fuel
C. Flow rate of air-fuel mixture
D. Level of the petrol in the float chamber

Ans. D.

8. Angle between the face and flank of the single point cutting tool is known as
A. Rake angle B. Clearance angle
C. Lip angle D. Point angle

Ans. C.

9. Which of the following is a cutting tool material
A. High speed steel B. Mild steel
C. Cast iron D. Galvanized steel

Ans. A.

10. In milling machine, the cutting tool is held in position by
A. Chuck B. Spindle
C. Arbor D. Tool holder

Ans. C.

11. Collapsible tooth paste tubes are manufactured by
A. Direct extrusion
B. Piercing
C. Impact extrusion
D. Indirect extrusion

Ans. C.

12. Sprue in casting refers to
A. Gate B. Runner
C. Riser D. Vertical passage

Ans. D.

13. In arc welding, arc is created between the electrode and work by
A. Flow of current
B. Voltage
C. Material characteristics
D. Contact resistance

Ans. D.

14. Preheating of work piece is essential in welding
A. High speed steel
B. Stainless steel
C. Cast iron
D. Aluminium

Ans. C.

15. An ideal voltage source should have
A. large value of emf
B. small value of emf
C. zero source resistance
D. infinite source resistance

Ans. C.

16. Which bulbs operates on lowest power
A. Night bulb B. Neon bulb
C. GLS bulb D. Torch bulb

Ans. D.

17. Electrode is not consumed in the case of
A. TIG welding
B. MIG welding
C. Gas welding
D. Resistance welding

Ans. A.

18. DC generator are installed near the load centres to reduce.
A. iron losses
B. line losses
C. sparking
D. corona losses

Ans. B.

19. In a DC motor, constant torque is produced due to
A. rotor laminations B. end plates
C. pole shoes D. commutator

Ans. D.

20. Which of the following is not a part of transformer.
A. Conservator B. Buchholz Relay
C. Exciter D. Breather

Ans. C.

21. An induction motor is
A. self starting with zero torque
B. self starting with high torque
C. self starting with low torque
D. non self starting

Ans. C.

22. The term "cogging" is associated with
A. three phase transformer
B. compound generators
C. DC series motor
D. Induction motors

Ans. D.

23. The speed of universal motor is generally reduced by using
A. gear trains B. V-belts
C. brakes D. chains

Ans. A.

24. A thermal protection switch can protect against
A. short circuit B. temperature
C. over load D. Variable load

Ans. C.

25. In a bipolar transistor which current is largest
A. collector current
B. base current
C. emitter current
D. base or emitter current

Ans. C.

26. The word enhancement mode is associated with
A. tunnel diode B. MOSFET
C. photodiode D. varactor diode

Ans. B.

27. Which of the following has highest resistivity?
A. Mica B. Paraffin
C. Air D. Mineral oil

Ans. C.

28. Power diodes are generally
A. silicon diodes
B. germanium diodes
C. carbon diodes
D. carbon or germanium diodes

Ans. A.

29. The depletion layer width of junction
A. decreases with light doping
B. is independent of applied voltage
C. increases under reverse bias
D. increases with heavy doping

Ans. C.

30. For mercury arc rectifiers, the anode is usually made up of
A. aluminium B. graphite
C. tungsten D. copper

Ans. B.

31. For effective modulation, the degree of modulation should
A. small
B. never exceed 100%
C. be large
D. always more than 100%

Ans. B.

32. Which of them radiates emission?
A. LED
B. LCD
C. Both LCD and LED
D. Neither LCD nor LED

Ans. A.

33. Binary 101010 is equivalent to decimal number
A. 24 B. 42
C. 64 D. 44

Ans. B.

34. The number of valence electrons in donor impurity are
A. 1 B. 3
C. 5 D. 7

Ans. C.

35. A prismatic beam has uniform
A. Depth B. Width
C. Strength D. Cross-section

Ans. D.

36. A well graded soil has a coefficient of curvature between
A. 10 to 12 B. 7 to 9
C. 4 to 6 D. 1 to 3

Ans. D.

37. How is the deflection in RC beams controlled as per IS : 456?
A. By using large aspect ratio
B. By using small modular ratio
C. By controlling span/depth ratio
D. By moderating water-cement ratio

Ans. C.

38. A steel beam supporting loads from the floor slab as well as from wall is termed as
A. Stringer beam
B. Lintel beam
C. Spandrel beam
D. Header beam

Ans. C.

39. The dimensions of dynamic viscosity μ are
 A. $ML^{-1} T^{-2}$ B. $ML^{-1} T^{-1}$
 C. MLT^{-2} D. $M^{\circ}L^{\circ}T^{\circ}$
- Ans. B.
40. The representative fraction 1/2500 means that the scale 1 cm is equal to
 A. 0.25 m B. 2.5 m
 C. 25 m D. 2.5 km
- Ans. C.
41. CPM is the
 A. time oriented technique
 B. event oriented technique
 C. activity oriented technique
 D. target oriented technique
- Ans. C.
42. Which of the following cement has maximum percentage of C_3S
 A. Ordinary portland cement
 B. Low heat cement
 C. Sulphate resisting cement
 D. Rapid hardening cement
- Ans. D.
43. Consistency as applied to cohesive soils is an indicator of its
 A. Density B. Moisture content
 C. Shear strength D. Porosity
- Ans. C.
44. The needle of a magnetic compass is generally supported on a
 A. Bush bearing B. Ball bearing
 C. Needle bearing D. Jewel bearing
- Ans. D.
45. Stainless steel resist corrosion due to
 A. Carbon B. Manganese
 C. Chromium D. Sulphur
- Ans. C.
46. A barometer is used to measure
 A. Very low pressure
 B. Very High pressure
 C. Pressure difference between two points
 D. Atmospheric pressure
- Ans. D.
47. The household energy meter is
 A. indicating instrument
 B. recording instrument
 C. integrating instrument
 D. visible instrument
- Ans. C.
48. Magnetic flux density has the dimensions
 A. $MI^{-1} T^{-2}$ B. $M^{-1} I^{-2} T^{-2}$
 C. $ML^{-3} T^{-2}$ D. $MI^{-1} T^{-3}$
- Ans. A.
49. **Assertion (A):** De sauty's bridge is suitable only for pure capacitor.

Reason (R): Capacitors are mostly perfect.

- A. Both A and R are true and R is correct explanation of A
 B. Both A and R are true but R is not correct explanation of A
 C. A is true R is false
 D. A is false R is true
- Ans. C.
50. A voltmeter using thermocouples measures
 A. RMS value B. Peak value
 C. Average value D. Peak of peak value
- Ans. A.
51. To increase Q factor of a coil, the wire should be
 A. Thin B. Thick
 C. Long D. Long and thin
- Ans. B.
52. The undesirable taste and odours caused by dissolved gases may be removed by
 A. chemical treatment
 B. aeration
 C. disinfection
 D. reverse osmosis
- Ans. B.
53. The biochemical oxygen demand of treated water should be
 A. nil
 B. less than 30 mg/I
 C. less than 150 mg/I
 D. always more than 9 mg/I
- Ans. A.
54. The function of sluice valve provided in pipe line is
 A. to reduce the chances of pollution reaching into the pipe
 B. to reduce the pressure on pipes
 C. to regulate the flow of water through the pipes
 D. to allow the air to enter the pipe
- Ans. C.
55. The source of lead in urban atmosphere is
 A. bursting of cracker in festive season
 B. road traffic
 C. construction works
 D. small scale industries
- Ans. B.
56. The noise level decreases with distance following
 A. inverse square law
 B. power law
 C. directly proportional to intensity square
 D. inversely proportional to intensity
- Ans. A.

57. The major pollutant that may cause damage to prestigious monument Taj Mahal is

- A. RSPM along with humidity
- B. NO_x with HC + Ozone
- C. SO_x with humidity
- D. Organic vapours released from Mathura refinery

Ans. C.

58. Microphone _____ is _____ a (an) _____

- A. Input device
- B. Output device
- C. Storage device
- D. Both input and output device

Ans. A.

59. Which of the following is a volatile memory?

- A. Cache memory
- B. Hard Disk
- C. DVD
- D. CD

Ans. A.

60. Dynamic RAM (DRAM) is slower than Static _____ RAM _____ (SRAM) because _____

- A. DRAM uses flip-flops
- B. DRAM is costlier
- C. DRAM requires refreshing
- D. DRAM is cheaper

Ans. C.

61. UTF-16 _____ is _____ a(an) _____

- A. 8-bit fixed-width encoding
- B. 8-bit variable-width encoding
- C. 16-bit variable-width encoding
- D. 16-bit fixed-width encoding

Ans. C.

62. The hexadecimal representation of $(407)_8$ is _____

- A. $(107)_{16}$
- B. $(701)_{16}$
- C. $(017)_{16}$
- D. $(710)_{16}$

Ans. A.

63. Considering X and Y as binary variables, the Boolean expression $Y + XY$ is equivalent to

- A. X
- B. 1
- C. 0
- D. Y

Ans. D.

64. The 2's complement of the binary number $(11110000)_2$ is

- A. $(00001111)_2$
- B. $(11110000)_2$
- C. $(00010000)_2$
- D. $(10101010)_2$

Ans. C.

65. Which of the following category of viruses does not replicate themselves?

- A. Worms
- B. Trojan horses
- C. Boot sector viruses
- D. Macro viruses

D. Macro viruses

Ans. B.

66. In class 'B' IP addresses, number of network ID bits used to identify the class is _____

- A. 0
- B. 1
- C. 2
- D. 3

Ans. C.

67. Which of the following categories of networks has largest geographic area?

- A. WAN
- B. PAN
- C. LAN
- D. MAN

Ans. A.

68. The front view and top view of a line both lie above the XY line. The line is located in:

- A. First Quadrant
- B. Second Quadrant
- C. Third Quadrant
- D. Fourth Quadrant

Ans. B.

69. If the nominal diameter of a bolt is "D", then the width of the hexagonal nut across flat surfaces is empirically given as:

- A. D
- B. $1.5 \times D$
- C. $1.5 \times D + 3 \text{ mm}$
- D. $1.5 \times D + 5 \text{ mm}$

Ans. C.

70. A vernier scale is good enough to read in after decimal.

- A. One digit
- B. Two digit
- C. Three digit
- D. Four digit

Ans. B.

71. A sectioning plane cuts a cone such that it is inclined to cone axis at an angle other than 90° and it cuts all its generators. The section so cut is

- A. Rectangular Hyperbola
- B. A Parabola
- C. A Hyperbola
- D. An ellipse

Ans. D.

72. An isometric projection is a:

- A. 2D view
- B. 3D view
- C. $2\frac{1}{2}$ view
- D. perspective view

Ans. A.

73. Which of the following is a unit of momentum?

- A. N m
- B. kg m s^{-1}
- C. kg m s^{-2}
- D. kg m^{-2}

Ans. B.

74. A ball is thrown vertically upward with a velocity of 19.6 m/s. The maximum height it attains is ($g = 9.8 \text{ m/s}^2$)

- A. 4.9 m
- B. 9.8 m
- C. 19.6 m
- D. 39.2 m

Ans. C.

75. A 10 kg box is placed at a height h above the ground. The potential energy of the box is 980 J. The value of h is ($g = 9.8 \text{ m/s}^2$)

- A. 10 m B. 20 m
C. 98 m D. 49 m

Ans. A.

76. A source produces sound waves under water. Waves travel through water and some of it is transmitted into air. Which of the following statements about the frequency f and wavelength λ is correct as sound passes from water to air?

- A. f and λ remain unchanged
B. f increases but λ decreases
C. f remains unchanged but λ increases
D. f remains unchanged but λ decreases

Ans. D.

77. A light ray from air enters and passes through a glass slab. Which of the following statement is true about its speed after it emerges from the block?

- A. Speed of same as that before it entered glass slab
B. Speed is same as that in glass slab
C. Speed is less than when in glass slab
D. Speed is less than before it entered glass slab

Ans. A.

78. Two resistors A and B are connected in parallel across a 3.0 V battery. The current through B is found to be 0.25 A. When the two resistors are connected in series to the same battery, the voltage across resistor A is found to be 1.0 V. Resistances of A and B are, respectively.

- A. 6Ω , 12Ω B. 9Ω , 12Ω
C. 3Ω , 6Ω D. 12Ω , 24Ω

Ans. A.

79. Which among the following is a displacement reaction?

- A. $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
B. $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
C. $\text{Pb} + \text{CuCl}_2 \rightarrow \text{PbCl}_2 + \text{Cu}$
D. $\text{C}_2\text{H}_4 + \text{H}_2 \rightarrow \text{C}_2\text{H}_6$

Ans. C.

80. What is the mass of molecule of nitrogen?

- A. 14 u B. 28 u
C. $14/6.023 \times 10^{23}$ D. $28/6.023 \times 10^{23}$

Ans. D.

81. A metal forms an amphoteric oxide on reaction with oxygen. The metal is

- A. Al B. Na
C. Cu D. Fe

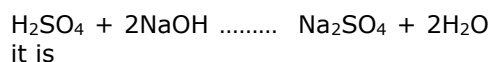
Ans. A.

82. A hydrocarbon contains one carbon-carbon single bond, one carbon-carbon double bond and one carbon-carbon triple bond. What is the molecular formula?

- A. C_4H_4 B. C_4H_6
C. C_4H_8 D. C_4H_{10}

Ans. A.

83. Which of the following are correct for the reaction



- (i) an endothermic reaction
(ii) an exothermic reaction
(iii) a neutralization reaction
(iv) a combination reaction

- A. (i) and (iii) B. (ii) and (iii)
C. (ii) and (iv) D. (iii) and (iv)

Ans. B.

84. The electronic configuration of an element is 2, 7. In which group of the modern periodic table is this element placed?

- A. 7 B. 9
C. 15 D. 1

Ans. A.

85. The hormone secreted by the human ovary is

- A. FSH B. LH
C. Estrogen D. Testosterone

Ans. C.

86. Colour blindness is due to a defective gene on

- A. X chromosome
B. Y chromosome
C. First pair of Autosomes
D. Last pair of Autosomes

Ans. A.

87. Mushrooms and Yeast are

- A. Lower Plants B. Seedless plants
C. Fungi D. Microorganisms

Ans. C.

88. The end product of Photosynthesis is a

- A. Carbohydrate B. Protein
C. Lipid D. Steroid

Ans. A.

89. When fertilizers as nutrients flow from field into an adjacent pond, algae bloom and cover the surface but fish in the pond die because.

- A. algae use up all the Oxygen
B. algae die and decompose and poison the pond
C. fish do not get any nutrients
D. fish do not get any sunlight

Ans. A.

90. Select the correct statement
- Lizards lay eggs but crocodiles give birth to babies
 - Birds lay eggs but bats give birth to babies
 - Both bats and birds lay eggs
 - Tortoises and crocodiles give birth to babies

Ans. B.

91. The HCF and LCM of 24 and 36 are respectively

- 12, 36
- 24, 24
- 12, 72
- 36, 72

Ans. C.

92. The least number which when divided by 15 and 18 leaving remainder 6 in each case is

- 84
- 96
- 264
- 276

Ans. B.

93. If $a : b = 5 : 6$ and $a + b = 220$, then a is equal to

- 100
- 120
- 130
- 140

Ans. A.

94. If 4, x , $2x$, 32 are in proportion, then x is equal to

- $8\sqrt{2}$
- 8
- 16
- $16\sqrt{2}$

Ans. B.

95. If 15% of a number is 9, then number is

- 30
- 45
- 60
- 75

Ans. C.

96. The simple interest on Rs. 300 for 3.5 years, at 6% per annum is

- Rs. 45
- Rs. 50
- Rs. 53
- Rs. 63

Ans. D.

97. Compound interest on Rs. 1000 for 3 years compound annually at 10% per annum is

- Rs. 331
- Rs. 300
- Rs. 1300
- Rs. 1331

Ans. A.

98. The cost price of an article is Rs. 260. If it is sold at profit of 10%, then selling price is

- Rs. 234
- Rs. 286
- Rs. 334
- Rs. 386

Ans. B.

99. The selling price of an article is Rs. 648. If it was sold at a profit of 8%, the cost price of the article was

- Rs. 500
- Rs. 550
- Rs. 600
- Rs. 630

Ans. C.

100. A shopkeeper mixes 30 kg of wheat which cost him Rs. 16/kg with 20 kg of wheat which cost him Rs. 18/kg. He sells the mixture at Rs. 20/kg. His gains is

- Rs. 260
- Rs. 220
- Rs. 180
- Rs. 160

Ans. D.

101. Two vessels A and B, spirit and water are in the ratio 7 : 2 and 7 : 4 respectively. The ratio in which these are mixed which contains spirit and water in the ratio 2:1 is

- 3:11
- 11:3
- 2:7
- 7:2

Ans. A.

102. A person cycles at the speed of 36 km/h. The time taken by him in seconds, to cover a distance of 1500 m is

- 160
- 150
- 120
- 90

Ans. B.

103. A train is moving at a speed of 72 km/h. In 5 seconds it will cover a distance of

- 60 m
- 80 m
- 100 m
- 120 m

Ans. C.

104. A can do a piece of work in 30 days and B can do same work in 20 days. If they work together, in how many days they can complete the same work?

- 10
- 12
- 15
- 16

Ans. B.

105. P and Q can do a piece work in 15 days, Q and R in 12 days and R and P in 20 days. The number of days required for R to complete the same work is

- 60
- 50
- 30
- 20

Ans. C.

106. The average of first 5 odd prime numbers is

- 5.4
- 5.8
- 6.8
- 7.8

Ans. D.

107. The average of 18 observations is 30 and average of 22 observations is 40. The average of all combined observations is

- 35.5
- 35
- 36
- 36.5

Ans. A.

108. The sum of first 20 terms of the AP 5, 9, 13, 17, ..., is

- 850
- 840
- 820
- 860

Ans. D.

109. The sum of infinite GP $5, 1, \frac{1}{5}, \frac{1}{5^2}, \dots$, is

- A. $25/4$ B. $28/5$
C. $29/4$ D. $29/5$

Ans. A.

110. A vertical pole is tied with a string of length 20 m on the ground. If string makes an angle of 60° with the ground, the length of pole is

- A. 10 m B. $10\sqrt{3}$ m
C. $\frac{10\sqrt{3}}{3}$ m D. 20 m

Ans. B.

111. The angle of elevation of top of a tower, 30 m high, from two points on opposite side of the tower are respectively 60° and 45° . If the point and tower are in same line, the distance between two points is

- A. $40\sqrt{3}$ m B. $10(3 + \sqrt{3})$ m
C. $20(\sqrt{3} - 1)$ m D. $20(3 - \sqrt{3})$ m

Ans. B.

112. If $(x + 1)$ is a factor of $x^4 - 2ax^3 + x^2 - 4$, then a is equal to

- A. -1 B. 2
C. 1 D. -2

Ans. C.

113. One of the factor of $(5x - 7x)^3 - (3y - 4x)^3$ is

- A. $(x - 10y)$ B. $(x - 4y)$
C. $(9x + 4y)$ D. $(9x - 10y)$

Ans. D.

114. The value of k for which $3x^2 - 2x + 3k = 0$ has equal roots is

- A. $1/9$ B. 9
C. $1/18$ D. 18

Ans. A.

115. The sum of squares of the roots of the equations $x^2 - 5x - 6 = 0$ is

- A. 26 B. 30
C. 35 D. 37

Ans. D.

116. Which one of the following animals was not represented on seals and terracotta art of the Harappan culture

- A. Cow B. Elephant
C. Rhinoceros D. Tiger

Ans. A.

117. A "Forgotten Empire", written by the renowned historian Robert Sewell is about which of the following Empires

- A. Mauryan Empire
B. Kushan Empire
C. Vijaynagar Empire
D. Mughal Empire

Ans. C.

118. During whose Viceroyship did the High Court come into existence at the three presidential cities of Calcutta, Madras and Bombay

- A. Warren Hastings
B. Lord Cornwallis
C. John Lawrence
D. Lord Dalhousie

Ans. C.

119. The Eastern and Western Ghats meet at the

- A. Cardamom Hills B. Annamalai Hills
C. Nilgiri Hills D. Palani Hills

Ans. C.

120. Match List-1 with List-2 and select the correct answer from the codes given below in the list

List-1 (State)	List-2 (Emblem)
A. Zoji La Pass	1. Sikkim
B. Bara Lacha Pass	2. Uttarakhand
C. Jelep La Pass	3. Himachal Pradesh
D. Niti Pass	4. Jammu and Kashmir
A. A-4	B-1 C-2 D-3
B. A-2	B-3 C-4 D-1
C. A-4	B-3 C-1 D-2
D. A-2	B-1 C-4 D-3

Ans. C.

121. The Karakoram highway connects which of the following pair of countries

- A. India-Nepal B. India-China
C. India-Pakistan D. China-Pakistan

Ans. D.

122. On raising the temperature of the medium, velocity of light

- A. increases
B. decreases
C. remains the same
D. suddenly decrease

Ans. A.

123. Which of the following is a paramagnetic

- A. nickel B. cobalt
C. chromium D. copper

Ans. C.

124. If the length of a simple pendulum increase by 4%, then its time period will be

- A. increased by 3%
B. increased by 4%
C. increased by 2%
D. increased by 8%

Ans. C.

125. The India legislature was made bi-cameral for the first time by
 A. Indian Council Act 1892
 B. Indian Council Act 1909
 C. The Government of India Act 1919
 D. The Government of India Act 1935

Ans. C.

126. Recommendations to the president of India on the specific Union state fiscal relations are made by the-
 A. Finance Minister
 B. Reserve Bank of India
 C. Planning Commission
 D. Finance Commission

Ans. D.

127. Who had estimated National income in India first
 A. Dadabhai Naoroji
 B. R.C Dutt
 C. M.G. Ranade
 D. W. Hunter

Ans. A.

128. Match the Dams and the States in which they are situated

List-1(Dam)	List-2 (State)
1. Tungabhadra	1. Kerala
2. Lower bhawani	2. Andhra Pradesh
3. Idukki	3. Tamil Nadu
4. Nagarjuna Sagar	4. Karnataka
A. A-3	B-2 C-4 D-1
B. A-2	B-4 C-3 D-1
C. A-4	B-3 C-1 D-2
D. A-1	B-4 C-1 D-3

Ans. C.

129. Which one of the following was the Chairman of the Committee on Pricing and Taxation of Petroleum Products?
 A. Raja J. Chelliah B. C. Rangrajan
 C. Y.V. Reddy D. Abid Hussain

Ans. B.

130. The first Commonwealth Games were held in year 1930 at
 A. London (UK)
 B. Sydney (Australia)
 C. Hamilton (Canada)
 D. Auchland (New Zealand)

Ans. C.

131. Which of the following is currently matched
 A. Nehru trophy – Table tennis
 B. Holkar trophy - Bridge
 C. Ruia trophy - Kabaddi
 D. B.C. Roy Trophy-Lawn Tennis

Ans. B.

132. The disease Athlete foot is caused by
 A. Bacteria B. Fungi
 C. Protozoa D. Nematod

Ans. B.

133. Which one of the following is not obtained from stem?
 A. Sunhemp B. Jute
 C. Hemp D. Cotton

Ans. D.

134. Plant which grow in saline soil are
 A. Xerophytes B. Hydrophytes
 C. Halophytes D. Succulents

Ans. C.

135. What are the type of bonds present in $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
 A. Electrovalent and covalent
 B. Electrovalent and co-ordinate
 C. Electrovalent, covalent, co-ordinate and hydrogen bond
 D. Covalent and co-ordinate covalent

Ans. C.

136. Match List-1 with List-2 and select the correct answer using the codes given in the lists.

List - 1	List -2
A. Blue vitriol	1. Sodium bicarbonate
B. Epsom salt	2. Sodium hydroxide
C. Baking soda	3. Magnesium sulphate
D. Caustic soda	4. Copper sulphate
A. A-3	B-4 C-2 D-1
B. A-4	B-3 C-2 D-1
C. A-3	B-4 C-1 D-2
D. A-4	B-3 C-1 D-2

Ans. D.

137. Which one of the following is not an essential micronutrient for plants?
 A. Boron B. Zinc
 C. Sodium D. Copper

Ans. C.

138. A renowned Hindi poet who received the Sahitya Akademi award for his work 'Hawa mein hastakshar' passed away on April 1, 2015 is
 A. Ajit Kumar
 B. Kailash Vajpayi
 C. Harishankar Parsai
 D. Ravindra Kalia

Ans. B.

139. The 99th constitution Amendment Act was in news recently. It is related to
 A. National Judicial Appointments Commission
 B. Right to work
 C. Reservation of women in police services
 D. Police action in Naxal-prone areas.

Ans. A.

140. Who has been declared the best actor and the best actress at the 62nd national film awards announced on March 24, 2014 in New Delhi?
 A. Sanjari Vijay and Kangana Ranaut
 B. Sanjari Vijay and Baljinder Kaur
 C. Bobby Simhaa and Kangana Ranaut
 D. Bobby Simhaa and Baljinder Kaur

Ans. A.

141. B is the brother of A, who is the father of D. C is the brother of D. D and E are sisters. How is B related to?

- A. Uncle
- B. Brother
- C. Father
- D. Grandfather

Ans. A.

142. The first two numbers on the left of the sign '::' are related in a certain way. The same relationship holds for the second pair of numbers on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

4623 : 2814 :: 6531 : ?

- A. 3546
- B. 4813
- C. 3268
- D. 3462

Ans. D.

143. 'Cat' is related to 'Kitten' in the same way as 'Lion' is related to:

- A. Puppy
- B. Cub
- C. Lioness
- D. Animal

Ans. B.

144. Six persons are sitting in a row. F is to the left of E and right of B. There are 2 persons between E and D and 1 person between A and E. If A is at one of the extremes, who is at the other extreme?

- A. E
- B. C
- C. B
- D. D

Ans. D.

145. Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

- 1. Doctor
- 2. Medicine
- 3. Hospital
- 4. Diagnosis
- 5. Cure
- 6. Fever

A. 6, 1, 3, 2, 4, 5

B. 5, 2, 4, 3, 1, 6

C. 6, 3, 1, 4, 2, 5

D. 6, 3, 4, 1, 2, 5

Ans. C.

146. One term in the following number series is wrong. Find out the wrong term.

220, 108, 54, 24, 10, 3

- A. 108
- B. 54
- C. 24
- D. 10

Ans. B.

147. If MOST is coded as 5926 and TRUE is coded as 6814, then SORE will be coded as:

- A. 2948
- B. 4892
- C. 9248
- D. 2984

Ans. D.

148. If 'HARMONY' is coded as 'YHANORM' would be coded as:

- A. NEXIPAL
- B. LPXENIA
- C. NEXIAPL
- D. NEIXAPL

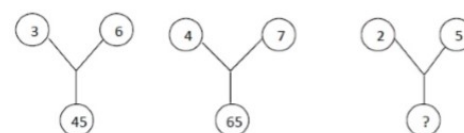
Ans. a.

149. A boy walked Southwards, turned right and walked 3 km. Then he turned left and walked 1 km. If he is 5 km from his starting point, how far did he walk southwards initially?

- A. 3 km
- B. 1 km
- C. 4 km
- D. 2 km

Ans. A.

150. The numbers in the following figures follow a pattern. Which number would replace the question mark?



- A. 27
- B. 29
- C. 31
- D. 48

Ans. B.