1. \(4.8 \times 1.8 \div 3.6 + 5.4 \text{ of } \frac{1}{9} \times \frac{1}{5} = \) 
(a) 3.4  (b) 2.8  (c) 1.2  (d) 3.2

2. What is the value of questions mark in \(\frac{6250}{\sqrt{?}} = 625\)?
(a) 100  (b) 95  (c) 110  (d) 105

3. If average of 'm' numbers is \(n^2\) and that of \(n\) numbers is \(m^2\), then the average of \((m + n)\) numbers is
(a) \((m - n)\)  (b) \(mn\)  (c) \((m + n)\)  (d) \(\frac{m}{n}\)

4. A train travels at 82.6 km/h. How many metres will it travel in 1.5 min?
(a) 20.65 m  (b) 206.5 m  (c) 2065 m  (d) None of the above

5. \(\sqrt{64009}\) is equal to
(a) 803  (b) 363  (c) 253  (d) 347

6. The present age of a man is 5 times the age of his son. 5 yr ago, the age of the man was 10 times the age of his son at that time. How old is the man at present?
(a) 45 yr  (b) 48 yr  (c) 49 yr  (d) 52 yr

7. A 120 m long train takes 10 s to cross a man standing on a platform. The speed of the train is
(a) 10 m/s  (b) 12 m/s  (c) 15 m/s  (d) 20 m/s

8. Walking at \(\frac{7}{8}\) of its usual speed, a train is 10 min late. Find its usual time to cover the journey
(a) 20 min  (b) 70 min  (c) 80 min  (d) 45 min

9. Express \(\frac{3}{4}\) as rate per cent
(a) 45%  (b) 60%  (c) 75%  (d) 80%

10. If \(4a = 5b\) and \(8b = 9c\), find \(a : b : c\)
(a) 21 : 36 : 38  (b) 32 : 24 : 56  (c) 14 : 18 : 21  (d) 45 : 36 : 32

11. 65% of a number is 21 less than \(\frac{4}{5}\) th of that number. Find the number
(a) 420  (b) 240  (c) 380  (d) 140

12. A chair is bought for \(¥750\) and sold at a loss of 6%. Find its selling price
(a) \(¥705\)  (b) \(¥621\)  (c) \(¥801\)  (d) None of these

13. A and B starts a business by investing \(¥100000\) and \(¥150000\) respectively. Find the share of each out of a total profit of \(¥240000\)
(a) \(¥11600\), \(¥12400\)  (b) \(¥9600\), \(¥14400\)  (c) \(¥8600\), \(¥15400\)  (d) None of these

14. A sum of \(¥391\) has been divided between \(A, B\) and \(C\) in the ratio \(1:2:3:4\). Find the share of \(C\)
(a) 27 runs  (b) 30 runs  (c) 32 runs  (d) 31 runs

15. A can do a piece of work in 8 days, which \(B\) alone can do in 10 days. In how many days both working together can do it?
(a) \(2\frac{1}{8}\) days  (b) \(4\frac{4}{9}\) days  (c) \(5\frac{8}{11}\) days  (d) \(6\frac{2}{9}\) days

16. A train leaves Delhi at 4:10 pm and reaches Aligarh at 7:25 pm. The average speed of the train is 40 km/h. What is the distance (in km) from Delhi to Aligarh?
(a) 130 km  (b) 140 km  (c) 120 km  (d) 150 km

17. If the mean of the following data is 13.5, then the value of \(p\) is
\[
\begin{array}{c|c|c|c|c|c}
\hline
x & 5 & 10 & p & 20 & 25 \\
\hline
f & 10 & 10 & 10 & 2 & 8 \\
\hline
\end{array}
\]
(a) 15  (b) 150  (c) 10  (d) None of these

18. A sum of money at simple interest doubles in 7 yr. It will become four times in
(a) 90 yr  (b) 18 yr  (c) 38 yr  (d) 21 yr

19. A cricket player scored the following runs in 11 one day matches 65, 30, 7, 60, 65, 65, 30, 28, 30, 15, 30. Find mode
(a) 27 runs  (b) 30 runs  (c) 32 runs  (d) 31 runs
20. If 7 : 8 : : x : 24, then the value of x is
(a) 20  (b) 21  (c) 20.5  (d) 21.6

21. A psychological test was conducted to know, the mental level of five children. As per the report of the psychologists, child A is less intelligent than B. Child C is less intelligent than D. Child B is less intelligent than child C and child A is more intelligent than E. Which one is the most intelligent?
(a) A  (b) B  (c) C  (d) D

22. Seven girls A, B, C, D, E, F and G are sitting in a row. C is sitting between A and D. E is sitting between F and G and B is sitting between D and F. If A and G are sitting at both ends, D is sitting between
(a) B and E  (b) C and B  (c) C and E  (d) A and B

Directions (Q. Nos. 23-24) Read the following information and answer the questions given below it.

'a' is the son of 'b', 'd' is the son of b's sister 'c' and her daughter is 'e'. If 'f' is the maternal uncle of 'd', then

23. How many nephews does 'f' have?
(a) Three  (b) Two  (c) One  (d) None of these

24. How is 'a' related to 'd'?
(a) Nephew  (b) Cousin  (c) Sister  (d) Uncle

25. If 'a' means 'addition,' 'b' means 'subtraction,' 'c' means 'multiplication' and 'd' means 'division', then value of
18c 14a 6b 16d 4 will be
(a) 1208  (b) 288  (c) 254  (d) 63

26. A certain number of horses and same number of men are going somewhere. Half of the men are riding on their horses and the remaining are walking on foot with the horses. If the number of legs on the ground be 80, the number of horses is
(a) 16  (b) 14  (c) 18  (d) 20

27. Which of the following words cannot be formed from the letters of the word 'ADULTERATION'?
(a) RETAIL  (b) TOILET  (c) RETURNING  (d) RELATION

28. How many triangles are there in the given figure?
(a) 10  (b) 6  (c) 8  (d) 11

29. Find the wrong number in the following number series
25, 36, 49, 81, 121, 169, 225
(a) 225  (b) 169  (c) 49  (d) 36

Directions (Q. No. 30) What will come in place of question mark (?) in the following question?

30. 12 8 16 7 25 21
(a) 184  (b) 225  (c) 250  (d) 130

31. Who is called the pioneer of liberalisation of Indian economy?
(a) Dr. Manmohan Singh  (b) PV Narshimha Rao  (c) Dr. Primal Jalan  (d) P Chidambaram

32. Who is called the ‘Father of Modern Economics’?
(a) Adam Smith  (b) Marshall  (c) Keynes  (d) Robbins

33. When the price of the commodity falls, we can expect
(a) the supply of it to increase (b) the demand for it to fall (c) the demand for it to stay constant (d) the demand for it to increase

34. What happens when an economy goes in the grip of recession?
I. GDP growth slows down. II. People lose their jobs. III. Foreign exchange reserve goes up substantially as lot of loans/grants start pouring in.
(a) Only I  (b) Only II  (c) Only III  (d) I and II

35. The ‘Law of demand’ express
(a) Effect of change in price of a commodity on its demand (b) Effect of change in demand of a commodity on its price (c) Effect of change in demand of a commodity over the supply of its substitute (d) None of the above

36. India has
(a) socialist economy  (b) gandhiian economy  (c) mixed economy  (d) free economy

37. The main occupation of the people of the Indus Valley civilisation was
(a) agriculture  (b) cattle rearing  (c) hunting  (d) trade

38. Which is the oldest Veda?
(a) Sama Veda  (b) Yajur Veda  (c) Atharva Veda  (d) Rig Veda

39. Who according to Jains, was the founder of jainism?
(a) Rishabhanatha  (b) Mahavira  (c) Aristanemi  (d) Parsavanatha

40. Lord Buddha was born in
(a) Lumbini  (b) Vaishali  (c) Bodh Gaya  (d) Patliputra

41. The term ‘Grand Slam’ is associated with which one of the following game?
(a) Cricket  (b) Swimming  (c) Lawn Tennis  (d) Badminton

42. Which of the following rulers belonged to slave dynasty?
(a) Ilutmish  (b) Humayun  (c) Akbar  (d) Ahmad Shah Abdali

43. Kabir was the disciple of
(a) Chaityana  (b) Shankaracharya  (c) Ramananda  (d) Vallabhbacharya

44. Madurai was the capital of
(a) Cholas  (b) Pallavas  (c) Pandyas  (d) Rashtrakutas

45. Which of the following planet is known as ‘Morning Star’?
(a) Mercury  (b) Venus  (c) Mars  (d) Jupiter

46. Which of the following is a river flowing from Central India and joining Yamuna/Ganga?
(a) Ghagra  (b) Gomti  (c) Kosi  (d) Betwa

47. Latitude of South pole is
(a) 0°  (b) 45°  (c) 90°  (d) 180°

48. The lowest layer of atmosphere is known as
(a) stratosphere  (b) ionosphere  (c) troposphere  (d) mesosphere

49. The intensity of Earthquake is measured on
(a) beaufort scale  (b) richter scale  (c) secant scale  (d) mercalli scale

50. The ‘Contra rebels’ belong to
(a) Argentina  (b) Paraguay  (c) Brazil  (d) Nicaragua

51. Cuba is in
(a) Pacific ocean  (b) Atlantic ocean  (c) Black sea  (d) Red sea

52. Which of the following is essential for blood clotting?
(a) RBC  (b) WBC  (c) Blood platelets  (d) Lymphs
### Practice Set 2

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>53. Insulin is secreted by</td>
<td>(a) pituitary gland (b) liver (c) pancreas (d) parathyroid</td>
</tr>
<tr>
<td>54. Element that is found in blood is</td>
<td>(a) iron (b) copper (c) chromium (d) magnesium</td>
</tr>
<tr>
<td>55. The population of which of the following is maximum on the Earth?</td>
<td>(a) Reptiles (b) Fishes (c) Pigeon (d) Homo sapiens</td>
</tr>
<tr>
<td>56. The largest flower in the world is that of</td>
<td>(a) lotus (b) Rafflesia (c) giant cactus (d) None of these</td>
</tr>
<tr>
<td>57. Which of the following is a scalar quantity?</td>
<td>(a) Electric current (b) Electric field (c) Acceleration (d) Linear momentum</td>
</tr>
<tr>
<td>58. Earliest thermometer was developed by</td>
<td>(a) Celsius (b) Fahrenheit (c) Kelvin (d) Galileo</td>
</tr>
<tr>
<td>59. When air is saturated, it cannot hold</td>
<td>(a) more water vapour (b) more air (c) more CO₂ (d) more O₂</td>
</tr>
<tr>
<td>60. The SI unit of mechanical equivalent of heat is</td>
<td>(a) joules-calorie (b) joules/calories (c) calories-ergs (d) ergs/calories</td>
</tr>
<tr>
<td>61. The change of a solid into vapour directly is called</td>
<td>(a) vaporization (b) freezing (c) melting (d) sublimation</td>
</tr>
<tr>
<td>62. An alloy is</td>
<td>(a) a compound (b) an allotropic form (c) an isomer (d) a mixture</td>
</tr>
<tr>
<td>63. The compound which has covalent bond is</td>
<td>(a) CsCl (b) CaO (c) N₂ (d) Na₂O</td>
</tr>
<tr>
<td>64. The metal always found in free state</td>
<td>(a) gold (b) sodium (c) silver (d) copper</td>
</tr>
<tr>
<td>65. HCl molecule contains</td>
<td>(a) ionic bond (b) covalent bond (c) hydrogen bond (d) coordinate bond</td>
</tr>
<tr>
<td>66. The only liquid non-metal present in periodic table is</td>
<td>(a) chlorine (b) mercury (c) bromine (d) fluorine</td>
</tr>
<tr>
<td>67. Durand Cup is associated with the game of</td>
<td>(a) Football (b) Polo (c) Cricket (d) Hockey</td>
</tr>
<tr>
<td>68. Which of the following is the official language in Argentina?</td>
<td>(a) Portuguese (b) French (c) Spanish (d) Dutch</td>
</tr>
<tr>
<td>69. Who among the following was an eminent painter?</td>
<td>(a) Sarda Utkil (b) Uday Shankar (c) V Shantaram (d) Yusuf Meherally</td>
</tr>
<tr>
<td>70. Who has been chosen for 5th edition of Yash Chopra Memorial Award 2018?</td>
<td>(a) Shah Rukh Khan (b) Amitabh Bachchan (c) Asha Bhosle (d) Lata Mangeshkar</td>
</tr>
<tr>
<td>71. Of the following, which one is the best insulator?</td>
<td>(a) Wood (b) Cloth (c) Glass (d) Paper</td>
</tr>
<tr>
<td>72. The constitution names our country as</td>
<td>(a) Bharat (b) India, that is Bharat (c) Hindustan (d) Aryavarta</td>
</tr>
<tr>
<td>73. The first state to become bifurcated after independence was</td>
<td>(a) Bengal (b) Bombay (Mumbai) (c) Punjab (d) Assam</td>
</tr>
<tr>
<td>74. The Preamble to our constitution includes an except</td>
<td>(a) adult franchise (b) equality of status (c) fraternity (d) justice</td>
</tr>
<tr>
<td>75. Right to equality before law is</td>
<td>(a) civil right (b) economic right (c) social right (d) political right</td>
</tr>
<tr>
<td>76. Who presides over the meetings of the Rajya Sabha?</td>
<td>(a) President (b) Vice President (c) Prime Minister (d) Speaker</td>
</tr>
<tr>
<td>77. Shiv Kumar Sharma is a famous player of</td>
<td>(a) sitar (b) flute (c) tabla (d) santoor</td>
</tr>
<tr>
<td>78. Yamini Krishnamurti is an accomplished exponent of</td>
<td>(a) kuchipudi (b) bharatnatyam (c) kathak (d) odissi</td>
</tr>
<tr>
<td>79. The Australia group was established to control the spread of which of the following?</td>
<td>(a) Ballistic Missiles (b) Nuclear Weapons (c) Civil Wars (d) Chemical and Biological Weapons</td>
</tr>
<tr>
<td>80. Murugappa Gold Cup is related to which among the following sports?</td>
<td>(a) Football (b) Hockey (c) Cricket (d) Table Tennis</td>
</tr>
<tr>
<td>81. Which Container Port has won the 2017 “Samudra Manthan - Caring Organisation of the Year” Football</td>
<td>(a) Haldia Port (b) Kolkata Port (c) Jawaharlal Nehru Port Trust (d) Visakhapatnam Port</td>
</tr>
<tr>
<td>82. RK Nayyar was a distinguished personality in the field of</td>
<td>(a) literature (b) classical music (c) film making (d) textile designing</td>
</tr>
<tr>
<td>83. The Chameli Devi Award is given to an outstanding woman who is</td>
<td>(a) vocalist (b) lawyer (c) journalist (d) scientist</td>
</tr>
<tr>
<td>84. Who has won the greatest number of Oscars in his life time?</td>
<td>(a) Ingrid Bergman (b) David Lean (c) Charlie Chaplin (d) Wall Disney</td>
</tr>
<tr>
<td>85. Dronacharya Award is given to</td>
<td>(a) fire fighting operation (b) archery (c) significant contribution in the spread of literacy (d) outstanding coaching of athletics</td>
</tr>
<tr>
<td>86. Which country won the Under 19 Cricket World Cup 2018?</td>
<td>(a) England (b) India (c) West Indies (d) Australia</td>
</tr>
<tr>
<td>87. How many players are there in a kabaddi team?</td>
<td>(a) 7 (b) 11 (c) 9 (d) 5</td>
</tr>
<tr>
<td>88. The famous novel ‘Pride and Prejudice’ is written by</td>
<td>(a) RL Stevenson (b) George Eliot (c) Charles Dickens (d) Jane Austen</td>
</tr>
<tr>
<td>89. Who wrote the book ‘Gandhi and Stalin’?</td>
<td>(a) Rajmohan Gandhi (b) Nelson Mandela (c) Louis Fischer (d) Martin Luther</td>
</tr>
<tr>
<td>90. WWW stands for?</td>
<td>(a) World Wide Web (b) Wide World Web (c) Web World Wide (d) World Wide Web</td>
</tr>
</tbody>
</table>
91. A Web page normally consists of
   (a) head and body
   (b) top and bottom
   (c) body and font
   (d) Body and title

92. If a computer has more than one processor then it is known as ?
   (a) Uniprocess
   (b) Multiprocessor
   (c) Multithreaded
   (d) Multiprogramming

93. Which type of tag used by HTML ?
   (a) tags only for image
   (b) user defined tags
   (c) tags only for linking
   (d) fixed tags defined by the language

94. The blood is a slightly
   (a) alkaline fluid
   (b) acidic fluid
   (c) neutral fluid
   (d) None of the above

95. The person with blood group AB is called
   (a) universal recipient
   (b) universal donor
   (c) Rh (+ive)
   (d) None of the above

96. If an object of mass 1 Kg is subjected in a force of 1N, the object moves with
   (a) a speed of 1 m/s
   (b) a speed of 1 km/s
   (c) an acceleration of 10 m/s^2
   (d) an acceleration of 1 m/s^2

97. Red Cross was founded by
   (a) J.H. Dunant  (b) Baden Powell
   (c) Trygve Lie   (d) Frederick Passey

98. The Hundred Year War was fought between
   (a) France and Germany
   (b) Germany and Austria
   (c) France and England
   (d) England and Austria

99. Eye is related to ‘See’, in the same way as Ear is to
   (a) Ring        (b) Sound
   (c) Hear        (d) Smell

100. The first electric railway was opened in
    (a) 1853  (b) 1885  (c) 1905  (d) 1925