

1. A General of Army wants to form a solid square from 36562 armies, after arrangement, he found some armies left. How many armies were left?
  - (1) 36
  - (2) 65
  - (3) 81
  - (4) 97
2. If the average of 40, 10, 25, 20, 35,  $x$  is 25, then the value of  $x$  is-
  - (1) 20
  - (2) 25
  - (3) 30
  - (4) 35
3. The average age of 24 boys and their teacher is 15 years. When the teacher's age is excluded, the average age decreases by 1 year. The age of the teacher is-
  - (1) 38 years
  - (2) 39 years
  - (3) 40 years
  - (4) 41 years
4. If the difference between  $\frac{3}{8}$  th and  $\frac{2}{7}$  th of a number is 50, then the number would be
  - (1) 500
  - (2) 520
  - (3) 540
  - (4) 560
5. If 16% of 40% of a number is 8, the number is -
  - (1) 200
  - (2) 225
  - (3) 125
  - (4) 320
6. Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev ?
  - (1) 5 years
  - (2) 10 years
  - (3) 15 years
  - (4) 50 years
7. On selling an article for Rs. 48, one loses 20%. In order to gain 20%, what would be the selling price ?
  - (1) Rs. 52
  - (2) Rs. 56
  - (3) Rs. 68
  - (4) Rs. 72
8. Ram, Shyam and Kamal together started a business in partnership. The ratio of their capitals is 3 : 4 : 7. If their annual profit be Rs. 21,000, what will be Kamal's share in this profit ?
  - (1) Rs. 12,500
  - (2) Rs. 10,500
  - (3) Rs. 15,000
  - (4) Rs. 10,000
9. The length of a rectangle is increased by 10% and breadth decreased by 10%. Then, the area of new rectangle is -
  - (1) neither increased nor decreased
  - (2) increased by 1%
  - (3) decreased by 1%
  - (4) decreased by 10%
10. It costs Re. 1 to photocopy a sheet of paper. However, 2% discount is allowed on all photocopies done after first 1000 sheets. How much will it cost to photocopy 5000 sheets of paper ?
  - (1) Rs. 3,920
  - (2) Rs. 3,980
  - (3) Rs. 4,900
  - (4) Rs. 4,920
11. Which of the following is used in pencils ?
  - (1) Charcoal
  - (2) Silicon
  - (3) Phosphorus
  - (4) Graphite
12. Ten term 'Black Box' is more commonly used in relation to which of the following ?
  - (1) It is a box in which high grade uranium is kept to prevent radiation
  - (2) It is a time capsule in which records of important events are kept to be opened at a later date
  - (3) It is a flight recorder in an aeroplane
  - (4) None of these
13. How many spokes are there in the Dharma-Chakra of our National Flag ?
  - (1) 20
  - (2) 22
  - (3) 24
  - (4) None of these
14. When a bill passed by Parliament is sent to the President for his assent, which option is not true to him ?
  - (1) He may sign it
  - (2) He may decline to sign it
  - (3) He may return it to Parliament for reconsideration
  - (4) He may amend it
15. Parliament of India is composed of -
  - (1) Lok Sabha only
  - (2) Rajya Sabha only
  - (3) Lok Sabha and Rajya Sabha
  - (4) Lok Sabha, Rajya Sabha and President
16. The charge of impeachment against the president of India for his removal can be preferred by -
  - (1) Rajya Sabha
  - (2) Lok Sabha
  - (3) Speaker of Lok Sabha and Chairman of Rajya Sabha
  - (4) Both Houses of Parliament
17. Gandhiji was given the name 'Mahatma' by-
  - (1) Rabindranath Tagore
  - (2) Jawaharlal Nehru
  - (3) Sardar Vallabhbhai Patel
  - (4) Netaji Subhas Chandra Bose
18. The first Indian woman awarded 'Bharat Ratna' award is -
  - (1) Mother Teresa
  - (2) Sarojini Naidu
  - (3) Indra Gandhi
  - (4) Vijay Lakshmi Pandit
19. ----- is also known as sugar bowl of the world.
  - (1) Thailand
  - (2) Japan
  - (3) Cuba
  - (4) China

20. Sarnath is in the State of -  
 (1) Kerala  
 (2) Maharashtra  
 (3) Gujarat  
 (4) Uttar Pradesh

21. Wisdom teeth normally grow during the age of  
 (1) 12 - 15 years  
 (2) 17 - 30 years  
 (3) 34 - 40 years  
 (4) 40 - 45 years

22. A person will have brown eyes, blue eyes or black eyes depend upon the particular pigment present in the -  
 (1) Pupil (2) Cornea  
 (3) Iris (4) Choroid

23. A person with AB blood group is sometimes called a universal recipient because of the -  
 (1) presence of antibodies in his blood  
 (2) lack of antibodies in his blood  
 (3) lack of antigen in his blood  
 (4) lack of both antigens and antibodies in his blood

24. The maximum temperature the human skin can tolerate without getting blisters is -  
 (1) 40°C (2) 60°C  
 (3) 80°C (4) 100°C

25. An ant can see the objects all around it due to the presence of -  
 (1) simple eyes  
 (2) eyes over the head  
 (3) well developed eyes  
 (4) compound eyes

26. The Electric Lamp was discovered by -  
 (1) Ford (2) Marconi  
 (3) Edison  
 (4) None of these

27. When ice melts into water, its -  
 (1) volume increases  
 (2) mass increases  
 (3) volume decreases  
 (4) mass decreases

28. If a boy sitting in a railway train, moving at constant velocity, throws a ball straight up into the air -

- (1) the ball will fall behind him  
 (2) the ball will fall behind him  
 (3) the ball will fall into his hand  
 (4) the ball will not return downwards

29. If a bar magnet is broken into two pieces, then -  
 (1) each will remain a magnet with North - pole at one end and South - pole at the other end  
 (2) both pieces will lose their magnetism  
 (3) the longer piece will behave as a bar magnet  
 (4) one piece will have North-pole on both sides, the other will have South - pole on both sides

30. The tube light is felt cooler than the light from a bulb of the same wattage because the -  
 (1) tube is fixed at a greater height than the bulb  
 (2) surface area of a tube is larger than that of a bulb  
 (3) tungsten is not used in the tube  
 (4) tube consumes less power

31. At what point the Centigrade and Fahrenheit temperatures are same ?  
 (1) 10° (2) 0°  
 (3) - 10° (4) - 40°

32. The H.C.F of two numbers is 7 and their L.C.M. is 210. If one of the numbers is 35, find the other -  
 (1) 14 (2) 21  
 (3) 42  
 (4) None of these

33. An electronic device makes a beep after every 60 sec. Another device makes a beep after every 62 sec. They beeped together at 10 A.M. The next time, when they would beep together at the earliest is -  
 (1) 10:30 A.M. (2) 10:31 A.M.  
 (3) 10:59 A.M. (4) 11 A.M.

- (1) 0.001 is -  
 (1) 1.001 (2) 1.011  
 (3) 1.003 (4) 1.111
35.  $0.87 \times 0.87 \times 0.87 + 0.13 \times 0.13 \times 0.13$   
 $0.87 \times 0.87 - 0.87 \times 0.13 + 0.13 \times 0.13 = ?$   
 (1) 0.13 (2) 0.74  
 (3) 0.9 (4) 1

36. Which of the following fractions is the smallest ?  
 (1)  $\frac{9}{13}$  (2)  $\frac{17}{26}$   
 (3)  $\frac{28}{39}$  (4)  $\frac{33}{52}$

37. The value of  $\frac{1}{0}$  will be  
 (1) 1 (2) 0  
 (3) Infinite  
 (4) None of these

38. A boy was asked to multiply a number by 12. By mistake he multiplied the number by 21 and got his answer 63 more than the correct answer.  
 The number was -  
 (1) 7 (2) 8  
 (3) 9 (4) 12

39. The largest number that divides 210, 315, 147 and 168 exactly, is -  
 (1) 3 (2) 7  
 (3) 21 (4) 4410

40. How many digits are required for numbering the pages of a book having 300 pages ?  
 (1) 299 (2) 492  
 (3) 789 (4) 792

41. 'Let no man ask a man's sect or caste' - Whose dictum was this ?  
 (1) Kabir  
 (2) Ramananda  
 (3) Ramanuja  
 (4) Chaitanya

42. The bone of contention between the Shah of Persia and the Mughals was the control of -  
 (1) Kabul (2) Kandhar  
 (3) Ghazni (4) Kunduz

43. When did Vasco-da-Gama come to India ?  
 (1) 1492 (2) 1498  
 (3) 1398 (4) 1542
44. Which Indian King requested Napoleon to drive the British from India ?  
 (1) Rani of Jhansi  
 (2) Jai Singh  
 (3) Shivaji  
 (4) Tipu Sultan
45. The Words 'Satyameva Jayate' inscribed below the base plate of the emblem of India are taken from -  
 (1) Rig Veda  
 (2) Satpath Brahmana  
 (3) Ramayana  
 (4) Mundak Upanishad
46. The large Shiva Temple at Thanjavur was built by -  
 (1) Rajendra Chola  
 (2) Rajaraja Chola  
 (3) Chandellas  
 (4) Rashtrakutas
47. Who built Char Minar ?  
 (1) Ibrahim Qutb Shah  
 (2) Quli Qutb Shah  
 (3) Ali Adil Shah  
 (4) Ibrahim Adil Shah II
48. The outermost layer of the Sun is called -  
 (1) Lithosphere  
 (2) Photosphere  
 (3) Chromosphere  
 (4) Corona
49. Tides are the highest -  
 (1) when the earth is nearest to the sun  
 (2) when the earth is nearest to the moon  
 (3) in the spring  
 (4) when the Sun, the Moon and the Earth are in line
50. How many such digits are there in the number 5231698, each of which is as far away from the beginning of the number as when the digits are rearranged in ascending order ?  
 (1) One  
 (2) Two  
 (3) Three  
 (4) None of these
51. If in a year, 25th August is a Thursday, how many Mondays are there in that month?  
 (1) 3 (2) 4  
 (3) 5 (4) 6
52. Brown revolution in India is related to -  
 (1) Fertiliser production  
 (2) Fish production  
 (3) Egg production  
 (4) Leather production/ non-conventional energy
53. The river known as 'Bengal's sorrow' is -  
 (1) Damodar (2) Hooghly  
 (3) Katiganga  
 (4) Brahmaputra
54. Sachin Tendulkar completed 100th century in International Cricket on the cricket ground of -  
 (1) Brisbane (2) Oval  
 (3) Perth (4) Mirpur
55. The name of temple which was in the news for immense of wealth in its closed basement is -  
 (1) Somnath  
 (2) Dakshineswar  
 (3) Sun Temple  
 (4) Swami Padmanava Temple
56. 'Annie Besant' was from the nation -  
 (1) Switzerland  
 (2) Ireland  
 (3) England  
 (4) Poland
57. 'Mixed Economy' means -  
 (1) co - existence of small scale and large scale industries  
 (2) co - existence of the rich and the poor  
 (3) co - existence of private and public sector  
 (4) assigning equal importance to both agriculture and heavy industries
58. The plane of the solar system spins on its axis at the fastest rate ?  
 (1) Mercury (2) Earth  
 (3) Jupiter (4) Saturn
59. Lunar eclipse is caused when the -  
 (1) moon comes between the sun and the earth  
 (2) earth comes between the sun and the moon  
 (3) sun comes between the earth and the moon  
 (4) None of these
60. The original name of 'Mahadayak' Uttam Kumar was -  
 (1) Arun Chattopadhyay  
 (2) Soumitra Chattopadhyay  
 (3) Avik Chattopadhyay  
 (4) Abhijit Chattopadhyay
61. Who amongst the following Generals of Allauddin Khilji, was known as the Rustam of the age and the hero of the time ?  
 (1) Malik Kafur  
 (2) Ghazi Malik  
 (3) Zafar Khan  
 (4) None of these
62. The King who did not allow anybody to laugh in his court was -  
 (1) Qutabuddin Aibak  
 (2) Iltutmish  
 (3) Allauddin Khilji  
 (4) Balban
63. Who among the following gave maximum resistance to Britishers ?  
 (1) Rajputs (2) Mughals  
 (3) Sikhs (4) Marathas
64. When did Alexander invade India ?  
 (1) 336 B.C. (2) 326 B.C.  
 (3) 320 B.C. (4) 308 B.C.
65. The Mughal emperor who died due to a sudden fall from the staircase, was -  
 (1) Babur (2) Humayun  
 (3) Jahangir (4) Aurangzeb
66. Which of the following was the birth place of Guru Nanak ?

- (1) Anandpur (2) Amritsar
  - (3) Talwandi (4) Nanded
67. Mahatma Gandhi returned to India, leaving South Africa for ever in -
- (1) 1914 (2) 1915
  - (3) 1916 (4) 1919

68. Which one of the following was a revolutionary who later turned into a yogi and a philosopher ?
- (1) Bal Gangadhar Tilak
  - (2) Aurobindo Ghosh
  - (3) Lala Lajpat Rai
  - (4) Agarkar

69. Who founded the Banaras Hindu University ?
- (1) Mahatma Gandhi
  - (2) Madan Mohan Malaviya
  - (3) Jawaharlal Nehru
  - (4) None of these

70. 'Vande Mataram' was first sung at the session of the Indian National Congress in -
- (1) 1886 (2) 1892
  - (3) 1896 (4) 1904

71. Who among the following is known as the 'Heroine of 1942 Quit India Movement' ?
- (1) Dr. Annie Besant
  - (2) Sucheta Kriplani
  - (3) Aruna Asaf Ali
  - (4) Sarojini Naidu

72. Who was the first Indian to pass the Indian Civil Service?
- (1) Dadabhai Naoroji
  - (2) Surendranath Banerjee
  - (3) Bal Gangadhar Tilak
  - (4) D. N. Wacha

73. Ram Prasad Bismil was associated with -
- (1) Kakori Bomb case
  - (2) Alipore Bomb case
  - (3) Meerut Conspiracy case
  - (4) Kanpur Conspiracy case

74. The first railway started in India under the Governor-Generalship of -
- (1) Lord Canning
  - (2) Lord Dalhousie
  - (3) Lord Hastings
  - (4) Lord Cornwallis

75. The Great Bath of the Indus Valley Civilization was discovered in -
- (1) Harappa
  - (2) Lothal
  - (3) Mohenjodaro
  - (4) Ropar

76. The figure of the God that was depicted in the seal of Indus Valley people is -
- (1) Agni
  - (2) Indra
  - (3) Varuna
  - (4) Pashupati

77. The famous figure of a dancing girl found in the excavations of Harappa was made up of -
- (1) terracotta
  - (2) steatite
  - (3) bronze
  - (4) red limestone

78. Which of the following statements about Buddha and Mahavira is not correct ?
- (1) Both had the same attitude towards the concept of Varnas
  - (2) They were born in the same century
  - (3) Both advocated a simple, puritan and austere life
  - (4) They were Kshatriyas by birth

79. Dhanvantari, a renowned physician of ancient India, adorned the court of -
- (1) Samudragupta
  - (2) Ashoka
  - (3) Chandragupta Vikramaditya
  - (4) Kanishka

80. Who among the following introduced the famous Persian festival of Navroz in India ?
- (1) Balban
  - (2) Firuz Tughlaq
  - (3) Iltutmish
  - (4) Allauddin Khilji

81. The first Bengali actor who got 'Dada Sahib Phalke' award is
- (1) Uttam Kumar

- (3) Utpal Datta
- (4) Prasenjit
82. A boy introduced a girl as the daughter of the son of the father of his uncle. The girl is the boy's -
- (1) Nephew (2) Cousin
  - (3) Sister (4) Aunt

83. Raju decided to marry 3 years after he gets a job. He was 17 years old when he passed class 12th, after passing class 12th, he had completed his graduation course in 3 years and PG course in 2 years. He got the job exactly 1 year after completing his PG course. At what age, will he get married ?
- (1) 27 years (2) 26 years
  - (3) 28 years (4) 23 years

84. 'Knot' is a unit of speed of which of the following ?
- (1) Light waves
  - (2) Ship
  - (3) Sound waves
  - (4) Aeroplane

85. Which one of the following constitutes the two best reasons for distinguishing the living from the non-living ?
- (1) Growth and locomotion
  - (2) Irritability and locomotion
  - (3) Respiration and excretion
  - (4) Reproduction and locomotion

86. When milk is churned, the cream is separated from it due to -
- (1) frictional force
  - (2) cohesive force
  - (3) gravitational force
  - (4) centrifugal force

87. METAL is related to CONDUCTION in the same way as PLASTIC is related to
- (1) PETRO CHEMICALS
  - (2) INDUSTRIES
  - (3) INFLAMMATION
  - (4) INSULATION

88. The letters A to Z of the alphabet are given consecutive numerical values in a descending order and the sum of the numerical values of the letters of the word SORE is 67. What is the sum of the numerical values of the letters in the word GATE?

- (1) 85
- (2) 89
- (3) 91
- (4) 97

89. The last bus from Meerut to Delhi is at 10 PM. If the buses leave at equal intervals of 3 hours each and there are six buses in all, when does the third bus leave Delhi ?

- (1) 1 A.M
- (2) 7 P.M
- (3) 1 P.M
- (4) 7 A.M

90. Which of the following gases is lighter than air ?

- (1) Carbon dioxide
- (2) Oxygen
- (3) Ammonia
- (4) Chlorine

91. Amalgams are -

- (1) alloys which contain carbon
- (2) alloys which have great resistance to abrasion
- (3) alloys which contain mercury as one of the contents
- (4) highly coloured alloys

92. The main important feature of neutron bomb is that when it is dropped on a city, it would damage -

- (1) both the living organisms and buildings
- (2) the buildings but not the living organisms
- (3) the living organisms but spare buildings
- (4) None of these

93. In which of the following processes light energy is converted into chemical energy?

- (1) Respiration
- (2) Fermentation
- (3) Photosynthesis
- (4) Photorespiration

94. One fathom is equal to

- (1) 6 metres
- (2) 6 feet
- (3) 60 feet
- (4) 100 cms

95. The picture tube of a black and white T.V. set has only one electron gun that produces the picture on its screen. The number of electron guns, a colour picture tube has, is

- (1) five
- (2) three
- (3) four
- (4) six

96. The principle of working of periscope is based on -

- (1) reflection only
- (2) refraction only
- (3) reflection and refraction
- (4) reflection and interference

97. A thermostat is -

- (1) a device which varies the temperature of a bath
- (2) an instrument by which the accuracy of thermometers are determined
- (3) a device used to maintain a constant temperature of a water bath or an oven
- (4) a modern type of thermoflask which works on the principle of equipartition of heat energy

98. Which of the following statements is correct ?

- (1) Dynamo converts electrical energy into heat energy and electric motor converts mechanical energy into electrical energy
- (2) Dynamo converts mechanical energy into electrical energy and electric motor converts electrical energy into mechanical energy
- (3) Both dynamo and electric motor converts electrical energy into mechanical energy
- (4) Both dynamo and electric motor converts mechanical energy into electrical energy

99. Which of the following works on Bernoulli's principle ?

- (1) Gas lighter
- (2) Gas stove
- (3) Bunsen burner
- (4) None of these

100. Which of the following statements regarding the pressure cooker is not true ?

- (1) Steam helps to cook food earlier
- (2) Under high pressure, the boiling point of a liquid decreases
- (3) It leads to the saving in terms of fuel consumption
- (4) None of these