1. What is the value of \( \frac{3 + 4 \div 2 \times 3}{4 + 3 \times 2 \div 3} \)?
   (a) \( \frac{9}{4} \)  
   (b) \( \frac{3}{2} \)  
   (c) \( \frac{11}{18} \)  
   (d) \( \frac{7}{36} \)

2. The average monthly salary of 660 employees in a firm is ₹380. The average monthly salary of officers is ₹2100 and the average monthly salary of the other workers is ₹340. Find the number of other workers.
   (a) 645  
   (b) 660  
   (c) 640  
   (d) 650

3. A bucket of water is \( \frac{3}{5} \) full. When 38 L drawn from it, it is just \( \frac{1}{8} \) full. What is the total capacity of the bucket?
   (a) 100 L  
   (b) 80 L  
   (c) 85 L  
   (d) 90 L

4. \( \frac{5}{12} \) part of what amount is equal to \( 3 \frac{3}{4} \) part of ₹100?
   (a) ₹1000  
   (b) ₹750  
   (c) ₹800  
   (d) ₹900

5. The HCF of two numbers is 96 and their LCM is 1296. If one number is 864, then what is the other number?
   (a) 72  
   (b) 64  
   (c) 144  
   (d) 11664

6. What is the maximum possible length of a scale that can be used to measure exactly the following 3 lengths?
   3 m, 5 m 10 cm, 12 m 90 cm
   (a) 30 cm  
   (b) 20 cm  
   (c) 25 cm  
   (d) 10 cm

7. The difference between the square of any two consecutive integers is equal to
   (a) an even number  
   (b) difference of two numbers  
   (c) product of two numbers  
   (d) sum of two numbers

8. \( \sqrt{2} \) is a/an
   (a) integer  
   (b) rational number  
   (c) irrational number  
   (d) natural number

9. A decrease of ₹2 per kg in the price of rice enables a man to now purchase 4 kg more rice in ₹16. What was the original price of rice?
   (a) ₹16 per kg  
   (b) ₹8 per kg  
   (c) ₹4 per kg  
   (d) ₹2 per kg

10. 33% marks are required to pass an examination. A student who gets 210 marks fails by 21 marks. What are the total marks for the examination?
    (a) 700  
    (b) 650  
    (c) 600  
    (d) 550

11. Nine friends went to a hotel. 8 of them spent ₹3 each over their meals and the ninth friend spent ₹2 more than the average expenditure of all the nine. The total money spent by all of them was
    (a) ₹26  
    (b) ₹40  
    (c) ₹29  
    (d) None of these

12. The sum of the present ages of Ram, Neelam and Reena is 90 yr. 6 yr ago, their ages were in the ratio of 1 : 2 : 3. What is the present age of Reena?
    (a) 36 yr  
    (b) 42 yr  
    (c) 40 yr  
    (d) 45 yr

13. Simplify, \( \frac{44}{45} \times \frac{9}{11} + \frac{7}{10} \div \frac{1}{2} \times \frac{3}{4} \) of \( \frac{1}{2} + \frac{5}{9} \) - \( \frac{1}{3} \) \( \frac{16}{45} \) =?
    (a) 4  
    (b) \( \frac{1}{4} \)  
    (c) 2  
    (d) 3

14. When a definite number is multiplied by 13, then the product is found to consist of digit 9 only. The smallest such number is
    (a) 77923  
    (b) 78923  
    (c) 75923  
    (d) 76923

15. If the price of groceries increases by 20%, its sale decreases by 10%. What will be its effect on the turnover?
    (a) 5%  
    (b) \( \frac{5}{9} \)%  
    (c) 8%  
    (d) 20%
Directions (Q. Nos. 16-17) Find the odd words/letters/number pair/figure from the given alternatives.

16. (a) Jungle (b) Forest (c) Woods (d) Animals

17. Question Figures

(a)  
(b)  
(c)  
(d)  

Directions (Q. No. 18) In each question below are given two statements followed by two conclusions I and II. You have to take the two statements to be true even if they seem at variance with commonly known facts and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give Answer
(a) if only conclusion I follows
(b) if only conclusion II follows
(c) if neither I nor II follows
(d) if both I and II follow

18. Statements
Some boys are parrot.

Conclusions
I. Some parrots are flowers.
II. No flowers is a parrot.

19. Fan : Air ::
(a) Parents : Bring up (b) Bed : Sleep (c) Food : Hunger (d) Clouds : Rain

20. A series of figures are given which can be grouped into classes. Select the group into which the figures can be classified from the given responses.

Directions (Q. No. 25) These questions are based on the information given below.
Five persons are standing in a queue facing North. One of the two persons at the extreme ends is a professor and the other is a Businessman. An Advocate is standing to the right of a student. An Author is to the left of the Businessman. The Student is between the professor and the advocate.

25. Counting from the left, the Author is at which place?
(a) First (b) Second (c) Third (d) Fourth

Directions (Q. Nos. 26-28) Find the missing number/letters/figure from the given responses.

26. 9, 27, 31, 155, 161, 1127, ?
(a) 1135 (b) 1288 (c) 316 (d) 2254

27. If $6 \times 6 = 33, 8 \times 2 = 41$ and $4 \times 5 = 22.5$, then $8 \times 6 = ?$
(a) 24 (b) 43 (c) 38 (d) 2.66

28. Question Figures

(a)  
(b)  
(c)  
(d)  

Answer Figures

(a)  
(b)  
(c)  
(d)  

Directions (Q. Nos. 29 and 30) Read the following information and answer the following the questions given below.

(i) P, Q, R, S, and T are brothers. Two of them are twins and of same height.
(ii) Q is taller than only one brother.
(iii) R is taller than the twins.
(iv) S and T are twins.

29. Who is the tallest of all of them?
(a) T (b) R (c) Q (d) P

30. Which pair is shorter than the twins?
(a) P and Q (b) Q and R (c) S and T (d) S and R

31. The name of the world’s second space tourist is
(a) Yuri Gidzenko (b) Roberto Vittori (c) Johnny Koroma (d) Mark Shuttleworth

32. The first Indian to swim across English channel was
(a) PK Banerji (b) Mihir Sen (c) V Merchant (d) Arti Saha

33. Who among the following is a famous tabla player?
(a) Ali Akbar Khan (b) Birju Maharaj (c) Ravi Shanker (d) Swappan Kumar Chaudhry

34. Which of the Prime Minister India adopted the LPG (Liberalisation, privatation and globaliration) model in 1991?
(a) Rajiv Gandhi (b) P.V Narasimha Rao (c) H.D Dev Gowda (d) V.P Singh

35. Who is the recepient of Indra Gandhi Peace prize 2017?
(a) Dr. Mammoohan Singh (b) L.K Advani (c) Dr. Pranab Mukharjje (d) Yashwant Sinha

36. The only Indian to win the Nobel prize in Physics is
(a) Dr. JC Bose (b) Dr. CV Raman (c) Dr. HJ Bhabha (d) Dr. Vikram Sarabhai

37. Sahitya Akademi Award in India was instituted in
(a) 1953 (b) 1954 (c) 1956 (d) 1957

38. Oscar awards are associated with
(a) Literature (b) Science (c) Sports (d) Films
39. 2020 Olympic games will be held in
(a) London (b) Beijing
(c) Tokyo (d) Moscow

40. The 2017 women's world cup for cricket was held in
(a) West Indies (b) Australia
(c) England (d) India

41. Paradise Papers are related to the
(a) Black money 
(b) Cryptocurrency 
(c) Nuclear weapons 
(d) Cyber security

42. In which year was the ‘All India Radio’ set up?
(a) 1947 (b) 1950
(c) 1927 (d) 1936

43. Which city is called ‘White city’ of Rajasthan?
(a) Jaipur (b) Jodhpur
(c) Udaipur (d) None of these

44. Which of these tennis player has won the 2018 men's Singal Australian open tournament?
(a) Rafael nadal (b) Roger Federer
(c) Marina Gilic (d) Novak Djokovic

45. Indian Cancer Research Institute is located in
(a) New Delhi (b) Kolkata
(c) Mumbai (d) Chennai

46. The International Rice Research Institute is located in
(a) Malaysia (b) Thailand
(c) Indonesia (d) Philippines

47. ‘Matoshree’ book in written by
(a) Sumitra Mahajan
(b) Sheela Dixit
(c) Kiren Bedi
(d) Arundhati roy

48. Dr. APJ Abdul Kalam has written which of these books?
(a) Wings of fire
(b) Bright mind
(c) India at 2050
(d) Youngistan of India

49. Prasar Bharti comes under the ministry of
(a) Information technology
(b) Information & Broad casting
(c) Human Resource
(d) Home Affairs

50. Defence Research and Development Organisation (DRDO) was formed in—
(a) 1958 (b) 1959
(c) 1961 (d) 1962

51. ‘Kathak’ is a classical dance of
(a) Manipur (b) North India
(c) Tamil Nadu (d) Kerala

52. The first President of USA to visit India was
(a) Thomas leftersm
(b) John F Kennedy
(c) DW Eisenhower
(d) George Washington

53. Yuan is the currency of
(a) Japan (b) China
(c) Indonesia (d) Burma

54. The Iron pillar of Mehrauli was built by
(a) Mauryas (b) Nandas
(c) Khlilis (d) Guptas

55. Jama Masjid in Delhi was built by
(a) Jahangir (b) Akbar
(c) Humayun (d) Shahajahan

56. Ashoka Pillar is located at
(a) Sopara (b) Girnar
(c) Kalsi (d) Lauriya Nandangarh

57. Jahangiri Mahal is located in
(a) Fatehpur Sikri (b) Delhi
(c) Agra Fort (d) Sikandra

58. In ancient India, Nalanda University was a great centre for the study of
(a) Hinduism
(b) Hinayana Buddhism
(c) Jainism
(d) Mahayana Buddhism

59. The third battle of Panipat was fought in the year
(a) 1707 (b) 1739
(c) 1757 (d) 1761

60. The ancient name of the city of Patna is
(a) Kausambi (b) Pataliputra
(c) Kanauj (d) Kapilavastu

61. Chachnama is a famous work on the history of
(a) Gujarat
(b) Punjab
(c) Kashimir
(d) Sind

62. The coin Rupia was first issued by
(a) Sher Shah Suri
(b) Alauddin Khaliji
(c) Akbar
(d) Muhammad- bin - Tuglaq

63. Who was the first Muslim ruler to conquer South India?
(a) Alauddin Khaliji
(b) Muhammad Ghorri
(c) Babar
(d) Aurangzeb

64. Rift valleys are formed due to
(a) folding
(b) faulting
(c) volcanic action
(d) dyke rocks

65. Mountain of accumulation is the name given to
(a) Residual mountains
(b) Block mountains
(c) Volcanic mountains
(d) Fold mountains

66. The Challenger rise is located in
(a) The Pacific Ocean
(b) The Indian Ocean
(c) The Atlantic Ocean
(d) The Arctic Ocean

67. Oceanic waves caused by an earthquake are known as
(a) S-waves (b) L-waves
(c) P-waves (d) Tsunamis

68. Which of the following is an example of tissue?
(a) Brain (b) Blood
(c) Liver (d) Stomach

69. Which of the following is a cold ocean current?
(a) Brazil Current
(b) Gulf Stream
(c) Kuroshi Current
(d) Humboldt Current

70. Which of the following is a warm-ocean current?
(a) Californian Current
(b) Kuroshi Current
(c) Labrador Current
(d) Rip Current

71. Where was the first Parliamentary form of Government formed?
(a) Britain (b) Belgium
(c) France (d) Switzerland

72. How many schedules the Constitution of India contains?
(a) 9 (b) 10 (c) 11 (d) 12

73. The Constitutional Status has been given to Panchayats under Article.
(a) 219 (b) 226 (c) 239 (d) 243

74. The National E-governance Plan was approved by the cabinet in
(a) May 2005 (b) July 2005
(c) May 2006 (d) June 2006

75. How many Fundamental Duties are in the Indian Constitution?
(a) Nine (b) Eleven
(c) Twelve (d) Twenty

76. Which one of the following is not an example of economic over heads?
(a) Schools
(b) Sanitary Facilities
(c) Per capita income
(d) National income

77. Oxygen and ozone are
(a) allotropes (b) isomers
(c) isotopes (d) isobars
78. According to Census 2011, what is the percentage of male literacy?
(a) 74.04 (b) 70 (c) 65 (d) 82.14

79. Which state of India has the largest area?
(a) UP (b) MP (c) Maharashtra (d) Rajasthan

80. Where was electricity supply first introduced in India?
(a) Kolkata (b) Darjeeling (c) Mumbai (d) Chennai

81. What is the chemical used by Gandhiji as a symbol of protest during struggle for freedom?
(a) Sodium Chloride (b) Glucose (c) Fertilizer (d) Medicine

82. Velocity of light is maximum in
(a) diamond (b) water (c) glass (d) vacuum

83. The image of our face in a plane mirror is
(a) real (b) magnified (c) diminished (d) None of these

84. Line spectrum is given by
(a) sun (b) mercury vapour lamp (c) candle (d) electric bulb

86. \( \text{Al}^{3+} \) is isoelectronic with
(a) \( \text{F}^- \) (b) \( \text{S}^{2-} \) (c) \( \text{Al} \) (d) \( \text{Br}^- \)

87. The activity of radioisotope change with
(a) temperature (b) pressure (c) chemical environment (d) None of the above

88. Which of the following blood group is universal donor?
(a) B (b) O (c) A (d) AB

89. Which one of the following is smallest gland of body?
(a) Liver (b) Thyroid (c) Pituitary (d) Sivary gland

90. Female reproductive hormone is
(a) estrogen (b) progesterone (c) relaxin (d) All of the above

91. Unit of nervous tissue is
(a) axon (b) neuron (c) ganglion (d) cell body

92. Bone forming cells are
(a) osteoblasts (b) osteoclasts (c) chondrocytes

94. A student by chance mixed acetone with alcohol. This mixture of acetone with alcohol can be separated by
(a) Filtration (b) Separating funnel (c) Fractional Crystallization (d) Fractional distillation

95. The highest grade of coal whose surface is shining and has the highest calorific value, is
(a) Bituminous (b) Lignite (c) Anthracite (d) Peat

96. Age of tree is estimated by
(a) its weight (b) its height (c) the number of annual rings (d) the length of its root

97. Name of the screen the recognises touch input is.
(a) Recog screen (b) Point Screen (c) Touch Screen (d) Android Screen

98. Which of the following are components of Central Processing Unit (CPU) ?
(a) Arithmetic logic unit, Mouse (b) Arithmetic logic unit, Control unit (c) Arithmetic logic unit, Integrated Circuits (d) Control Unit, Monitor

99. Which of the following is not an OS ?
(a) Android (b) Windows