1. Find the similarity in the following common cold, ringworm, conjunctivities, whooping cough.
   (A) All of them are non-communicable diseases
   (B) All of them do not respond to curative treatment
   (C) All of them are contagious
   (D) No preventive measure is available for all of them

2. Thyroid gland is situated in our
   (A) Liver
   (B) Neck
   (C) Arm-pits
   (D) None of the above

3. Who discovered 'Boson' particle?
   (A) Meghnad Saha
   (B) Satyendra Nath Bose
   (C) C. V. Raman
   (D) J. C. Bose

4. If the length of a rectangle is increased by 20% and the breadth is reduced by 20%, what will be the effect on its area?
   (A) 4% increase
   (B) 6% increase
   (C) 4% decrease
   (D) None of the above

5. Which vitamin is called 'Riboflavin'?
   (A) Vitamin B_1
   (B) Vitamin B_2
   (C) Vitamin B_{12}
   (D) Vitamin C

6. **Identify the Synonym.**

   Absolve
   (A) Hate
   (B) Conspire
   (C) Pardon
   (D) Accuse

7. Which of the following is not an example of literature of vedic tradition?
   (A) Vedas
   (B) Puranas
   (C) Vedangas
   (D) Purvas

8. What does GSM stand for?
   (A) Geographic System for Mobility
   (B) Global System for Mobile Communications
   (C) Great System for Mobiles
   (D) Grand System for Mobility

9. P and Q can do a work in 12 days, Q and R in 15 days, R and P in 20 days. Find in what time P will do it alone?
   (A) 30 days
   (B) 20 days
   (C) 24 days
   (D) 60 days

10. One horse power is equal to
    (A) 736 Watts
    (B) 746 Watts
    (C) 748 Watts
    (D) 756 Watts

11. The electric bulb was invented by
   (A) Alexander Graham Bell
   (B) Michael Faraday
   (C) Edison
   (D) Benjamin Franklin

12. How many banks were nationalised in India in the year 1969?
   (A) 11
   (B) 12
   (C) 13
   (D) 14

13. **Choose the word that <u>does not belong</u> to the group.**
   (A) Gainsay
   (B) Deny
   (C) Aver
   (D) Rebuff

14. Which of the following award is associated with Agriculture?
   (A) Bor Lang Award
   (B) Shanti Swaroop Bhatnagar
   (C) Arjun Award
   (D) Vyas Samman

15. The 44th amendment in the Constitution of India removed which one of the following rights from the category of Fundamental Rights?
   (A) Freedom of Speech
   (B) Equality before Law
   (C) Right to Property
   (D) Freedom of Religion

16. Fertile black soil, most suitable for the cultivation of cotton is known as
   (A) Bhangar
   (B) Bhabar
   (C) Lom
   (D) Regur

17. The 'Sepoy Mutiny' first started in
   (A) Mirat
   (B) Barrackpur
   (C) Bihar
   (D) Nagpur

18. Which of the following is not an alloy of copper?
   (A) Bronze
   (B) Brass
   (C) Solder
   (D) Gun metal

19. If $4 = 104$, $5 = 105$, then $12 = ?$
   (A) 1012
   (B) 1011
   (C) 9012
   (D) 1021

20. Which of the following is not a commercial crop?
   (A) Jute
   (B) Cotton
   (C) Tea
   (D) Wheat

21. Methylated spirit is a mixture of
   - (A) Methyl alcohol and acetic acid
   - (B) Methyl alcohol and ethyl alcohol
   - (C) Ethyl alcohol and pyridine
   - (D) Methyl alcohol and Pyridine

22. The 'Khetri Project' in Rajasthan is famous for the production of
   - (A) Zinc
   - (B) Steel
   - (C) Copper
   - (D) Aluminium

23. If 10% of an electricity bill is deducted, Rs. 45 is still to be paid. How much was the Bill?
   - (A) Rs. 55
   - (B) Rs. 50
   - (C) Rs. 45
   - (D) Rs. 40

24. Gautam Buddha spread his religion in the language of
   - (A) Sanskrit
   - (B) Magadhi
   - (C) Pali
   - (D) Sauraseni

25. Gasoline is obtained from crude petroleum by
   - (A) fractional distillation
   - (B) fractional crystallisation
   - (C) sublimation
   - (D) evaporation

26. **Complete the sentence:**
   Although adolescent maturational and developmental states occur in an orderly sequence, their timing _____ with regard to onset and duration.
   - (A) lasts
   - (B) varies
   - (C) falters
   - (D) accelerates

27. Out of the following remains excavated in Indus Valley, which one indicates the commercial and economic development?
   - (A) Pottery
   - (B) Seals
   - (C) Boats
   - (D) Houses

28. Mixture of Calcium Aluminate and Calcium Silicate is called
   - (A) Glass
   - (B) Cement
   - (C) Mortar
   - (D) Concrete

29. HCF and LCM of two numbers are 16 and 240 respectively. If one of the number is 48, the other number is
   - (A) 32
   - (B) 64
   - (C) 80
   - (D) 160

30. **Identify the Synonym.**

   Abate
   - (A) Confusing
   - (B) Forget
   - (C) Decrease
   - (D) Abase

31. The working of the human eye is like that of a

(A) Camera
(B) Telescope
(C) Microscope
(D) Periscope

32. Isobars are lines displaying areas of equal

(A) humidity
(B) temperature
(C) rainfall
(D) atomospheric pressure

33. Which country is the largest trading partner of India?

(A) USA
(B) Japan
(C) China
(D) England

34. If p, q, r, s and t are five consequitive odd numbers, their average is

(A) $5(p+4)$

(B) $\dfrac{9(p+4)}{5}$

(C) $p+4$

(D) $\dfrac{p+t}{4}$

35. Which of the following cities is spread over two continents?

(A) Cairo
(B) Istanbul
(C) Tripoli
(D) Jerusalem

36. What is 'Mixed Farming'?

(A) Growing rabi as well as Kharif crops
(B) Growing several crops
(C) Growing several crops and also raising livestock
(D) Growing sugarcane as well as cereal

37. The first gasoline-run car engine was developed by

(A) Henry Ford
(B) Carl Benz
(C) Hugh Chalmers
(D) Horace Elgin Dodge

38. Complete the sentence:

_____, shy dogs tend to live much longer than bold, aggressive dogs.

(A) Febrile
(B) Captivated
(C) Docile
(D) Ferocious

39. Complete the sentence:

New research suggests that as threatening as they may feel, _____ relationships can often enhance social and emotional development more than they impede it.

(A) illicit
(B) harmonious
(C) cosmic
(D) cross-cultural

40. A man purchases two watches at Rs. 560. He sells one at 15% profit and other at 10% loss. Then he neither gains nor lose. The cost price of each watch is

(A) Rs. 224, Rs. 336
(B) Rs. 220, Rs. 340
(C) Rs. 234, Rs. 326
(D) Rs. 244, Rs. 316

41. All taxes come under
    (A) Revenue Receipt
    (B) Capital Gains
    (C) Public Borrowing
    (D) Both (A) and (B)

42. The full name for LAN associated with computer networking is
    (A) Land Area Network
    (B) Local Area Network
    (C) Local and non-local
    (D) Land and Network

43. Who amongst the following Englishmen, first translated 'Bhagvad Gita' into English?
    (A) William Jones
    (B) Charles Wilkins
    (C) Alexander Cunningham
    (D) John Marshall

44. Choose the word that <u>does not belong</u> to the group.
    (A) Puzzle
    (B) Nuzzle
    (C) Enigma
    (D) Riddle

45. By selling an article for Rs. 450, a man loses 25%. At what price he will sell in order to gain 25%?
    (A) Rs. 600
    (B) Rs. 650
    (C) Rs. 700
    (D) Rs. 750

46. Who wrote 'The autobiography of an unknown Indian'?
    (A) Mahatma Gandhi
    (B) Nirad C. Chaudhuri
    (C) Salman Rushdie
    (D) R. K. Narayan

47. In what time Rs. 2,400 will amount to Rs. 2,646 at 5% p.a. compounded annually?
    (A) 2 years
    (B) 3 years
    (C) 4 years
    (D) 5 years

48. At what rate of interest per annum will a sum double itself in 8 years?
    (A) $12\frac{1}{2}\%$
    (B) $17\frac{1}{2}\%$
    (C) $22\frac{1}{2}\%$
    (D) $27\frac{1}{2}\%$

49. Kalpakkam in Tamil Nadu is famous for
    (A) Oil refinery
    (B) Atomic power station
    (C) Rice production
    (D) Hydel power station

50. What did Dmitri Mendeleev formulate?
    (A) Chaos theory
    (B) The Periodic Table of Chemical elements
    (C) The Alpha Effect
    (D) Nuclear Shell Model

51. The material used in the manufacture of lead pencil is

 (A) Graphite

 (B) Lead

 (C) Mica

 (D) Carbon

52. Which of the following has not contributed in India's growth?

 (A) Technological Research

 (B) Population Growth

 (C) Diversification of Industries

 (D) Increase in Savings

53. From which part of the plant is turmeric obtained?

 (A) Root

 (B) Fruit

 (C) Seed

 (D) Stem

54. Who was the first Indian Governor-General of free India?

 (A) C. Rajagopalachari

 (B) Maulana Azad

 (C) Sardar Patel

 (D) Rajendra Prasad

55. A prescribed set of well-defined instructions for solving mathematical problems is called

 (A) A compiler

 (B) A code

 (C) A description

 (D) An algorithm

56. The progress in increase of fish production was called

 (A) Yellow revolution

 (B) White revolution

 (C) Brown revolution

 (D) Blue revolution

57. The velocity of light in vacuum and in other medium is C and V respectively, the refractive index of the medium

 (A) $\mu = CV$

 (B) $\mu = \dfrac{1}{CV}$

 (C) $\mu = C/V$

 (D) $\mu = \dfrac{V}{C}$

58. The powerhouse of a cell is the

 (A) Plastid

 (B) Chloroplasts

 (C) Golgi body

 (D) Mitochondria

59. Identify the <u>Synonym</u>.

 Adamant

 (A) Awkward

 (B) Stable

 (C) Stubborn

 (D) Pleasant

60. In which year was Rowlatt Act passed?

 (A) 1919

 (B) 1921

 (C) 1929

 (D) 1916

61. Where is the 'Headquarter' of Tea Board located?

   (A) Bangalore

   (B) Kochi

   (C) Kolkata

   (D) Darjeeling

62. Identify the Antonym.

   Immaculate

   (A) Spotless

   (B) Defective

   (C) Dirty

   (D) Arrogant

63. Gypsum is an ore of

   (A) iron

   (B) calcium

   (C) sodium

   (D) magnesium

64. Who invented the medicine of black fever/ kalajor?

   (A) Upendra Nath Roy

   (B) Upendra Nath Brahmachari

   (C) Upendra Nath Chowdhury

   (D) J. C. Bose

65. Which of the following is not a Kharif crop?

   (A) Rice

   (B) Maize

   (C) Cotton

   (D) Barley

66. Find the missing term of the series:

   12, 20, 30, ?, 56

   (A) 40

   (B) 42

   (C) 43

   (D) 46

67. Tropic of Cancer does not pass through

   (A) Gujarat

   (B) Odisha

   (C) Tripura

   (D) West Bengal

68. A man is walking at a speed of 10 km/hour. After every kilometre, he takes rest for 5 min. How much time will be taken to cover a distance of 5 km.?

   (A) 45 minutes

   (B) 50 minutes

   (C) 55 minutes

   (D) 1 hour

69. The ratio of two numbers is 15 : 11. If their HCF is 13, then the numbers are

   (A) 75, 55

   (B) 42, 22

   (C) 104, 44

   (D) 195, 143

70. If $7 \times 6 \times 9 = 976$, $5 \times 9 \times 4 = 459$, then $6 \times 3 \times 8 = ?$

   (A) 638

   (B) 368

   (C) 144

   (D) 863

71. A man can swim downstream at 8 km/hour and upstream at 2 km/hour. The speed of the current is

- (A) 3 km/hour
- (B) 4 km/hour
- (C) 5 km/hour
- (D) 6 km/hour

72. Which state launched 24 hours free power supply for farmers from 1st January 2018 and claimed to have became the first in India to launch such initiative in India?

- (A) Arunachal Pradesh
- (B) Telangana
- (C) Uttarakhand
- (D) Goa

73. If the average of a, b, c be M and $ab + bc = -ca$, then the average of a^2, b^2, c^2 is

- (A) M^2
- (B) $3M^2$
- (C) $9M^2$
- (D) $27M^2$

74. If a pendulum clock is taken to moon from the earth, the clock will

- (A) run slow
- (B) run fast
- (C) no change
- (D) stop working

75. Hiuen Tsang visited India during the reign of

- (A) Kanishk
- (B) Harshavardhan
- (C) Chandragupta
- (D) Skandgupta

76. Protein-energy malnutrition causes

- (A) Marasmus
- (B) Rickets
- (C) Beriberi
- (D) Pellagra

77. Basic, Cobol, C++ are different types of

- (A) computer languages
- (B) machine languages
- (C) sign languages
- (D) assembly languages

78. What was the immediate reason of withdrawal of non-co-operation movement?

- (A) Chauri-Chaura Incidence
- (B) Withdrawal of Muslims from the movement
- (C) Suppression by British Government
- (D) None of the above

79. Three years ago the population of a town was 2,50,000. If it had increased by 3%, 4% and 6% in the last three years, the present population of the town is

- (A) 2,83,268
- (B) 2,83,468
- (C) 2,83,668
- (D) 2,83,868

80. Major plantation of rubber is found in

- (A) Malaysia
- (B) Canada
- (C) Alaska
- (D) Mexico

81. 'Bande Mataram' was first composed in
    (A) 1870
    (B) 1872
    (C) 1875
    (D) 1876

82. Bile juice is secreted by
    (A) Pancreas
    (B) Liver
    (C) Spleen
    (D) Gall bladder

83. If PALE is coded as 2134, EARTH is coded as 41590, how is PEARL coded in that code?
    (A) 29530
    (B) 24153
    (C) 25413
    (D) 25430

84. P, Q and R start a business. P invests 3 time as much as Q invests and Q invests $\frac{2}{3}$ of what R invests. If the total profit is Rs. 1320, then the share of P will be
    (A) Rs. 760
    (B) Rs. 720
    (C) Rs. 600
    (D) Rs. 660

85. If the cost price of 25 articles is equal to the selling price of 20 articles, the gain % is
    (A) 20
    (B) 25
    (C) 30
    (D) 45

86. Who proved experimentally the existence of electromagnetic waves?
    (A) J. C. Bose
    (B) Maxwell
    (C) Marconi
    (D) Hertz

87. What is the function of lens in our eyes?
    (A) Lower the eyes
    (B) Send message of image to brain
    (C) Change the focal distance of the eye
    (D) Protect eyes from injury

88. A bag contains an equal number of one rupee, 50 paise and 25 paise coins respectively. If the total value is Rs. 35, how many coins of each type are there?
    (A) 70
    (B) 50
    (C) 30
    (D) 20

89. The longest bone in the human body is
    (A) Stirrup
    (B) Back bone
    (C) Thigh bone
    (D) Gullet

90. Identify the Antonym.
    Inclement
    (A) Confused
    (B) Stormy
    (C) Definite
    (D) Vivid

91. Which of the following is non-biodegradable?

    (A) Animal Bones

    (B) Nylon

    (C) Tea leaves

    (D) Wool

92. The part of the brain which is responsible for intelligence is

    (A) cerebrum

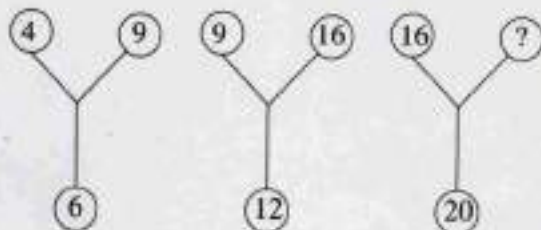   (B) cerebellum

    (C) olfactory lobe

    (D) cochlea

93. A person distributes his pens among four friends A, B, C and D in the ratio $\frac{1}{3}:\frac{1}{4}:\frac{1}{5}:\frac{1}{6}$. What is the minimum number of pens that the person should have?

    (A) 19

    (B) 38

    (C) 57

    (D) 58

94. If PEN = 123, HELF = 4278, COW = 956, then PEOPLE = ?

    (A) 125172

    (B) 1217253

    (C) 125127

    (D) 125721

95. Find the missing number:

    (A) 21

    (B) 25

    (C) 50

    (D) 60

96. A water tap can fill a cistern in 20 minutes and another can fill in 30 minutes. If both are opened simultaneously, the cistern will be full in

    (A) 12 minutes

    (B) 10 minutes

    (C) 25 minutes

    (D) 60 minutes

97. The sectors are classified into public and private sector on the basis of

    (A) employment condition.

    (B) the nature of economic activity.

    (C) ownership of enterprises.

    (D) number of worker employed in the enterprise.

98. If 90% of A = 30% of B and B = x% of A, then the value of x is

    (A) 600

    (B) 800

    (C) 900

    (D) 300

99. 'Raman Effect' was discovered in 1928 by

    (A) J. C. Bose

    (B) C. V. Raman

    (C) R. J. Raman

    (D) Taraknath Palit

100. The density of water is maximum at

    (A) 32°F

    (B) 42°F

    (C) 39·2°F

    (D) 4°F

Space for Rough Work