SECTION - I

ENGLISH

1. Which of the following shell has the least energy ?

(A) L (B) M (C) K (D) N

2. Which of the following has double bond ?

(A) H_2 (B) F_2 (C) Cl_2 (D) O_2

3. Which of these countries is made up entirely of islands ?

(A) Japan (B) Malaysia (C) Mozambique (D) Greece

4. Refraction of Sound can occur in :

(A) Water (B) Air

(C) Both (A) and (B) (D) Neither (A) nor (B)

5. Which one of the following is considered an encyclopedia of Indian Medicine ?

(A) Charaka Samhita (B) Lokayata

(C) Brihata Samhita (D) Surya Sidhanta

6. The area of a Lok Sabha constituency for the purpose of general elections is determined by :

(A) Delimination Commission (B) Election Commission of India

(C) Census Commission (D) President of India

7. HIV is **not** spread by the following ways :

(A) Mosquito bite (B) Unsafe sex

(C) Infected mother to child (D) Through transfusion of infected blood

8. Ooty is situated in the Nilgiri Hills of :

(A) Karnataka (B) Kerala

(C) Tamil Nadu (D) Andhra Pradesh

9. National Science Day is on :

(A) 28 February of every year (B) 28 April of every year

(C) 28 July of every year (D) 28 August of every year

10. 'Mudra Rakshas' was written by Vishakha Dutta in :

(A) Telugu (B) Bengali (C) Hindi (D) Sanskrit

11. The cause of unemployment in India is **not** :

(A) population explosion (B) poor manpower planning

(C) rapid development of Industry (D) inadequate employment planning

12. The function of compiler is :

(A) To control all devices of computers

(B) To take logical decisions

(C) To translate high level language into machine language

(D) To store data

13. Which of the following is an igneous rock ?

(A) Granite (B) Limestone (C) Slate (D) Quartzite

14. Isobars are the elements with :

(A) same mass number (B) same atomic number

(C) same neutron number (D) same number of electrons

15. Who is the chairman of the Second Administrative Reforms Commission ?

(A) Bimal Jalan (B) Dr. Karan Singh

(C) M. Veerappa Moily (D) Ahmed Patel

16. Right of religion is :

(A) A civil right (B) A political right

(C) An economic right (D) A fundamental right

17. Value of 'g' on the earth is :

(A) $9.8\ ms^{-2}$ (B) $1.67\ ms^{-2}$ (C) $98\ ms^{-2}$ (D) $167\ ms^{-2}$

18. The product of John's age 7 years ago with his age 2 years later is 52. Then John's present age is :

(A) 10 years (B) 11 years

(C) 12 years (D) None of the above

19. What is the Atomic number of chemical element 'Iron' ?

(A) 26 (B) 27 (C) 28 (D) 29

20. Refrigeration is a process which :

(A) kills bacteria (B) slows down the bacterial growth

(C) inactivates the bacteria (D) plasmolyses the bacteria

21. Namit Bahadur is associated with :

(A) Football (B) Boxing (C) Cricket (D) Chess

22. $7\frac{1}{7} + 8\frac{1}{6} + 5\frac{3}{4} + 3\frac{3}{2} - \frac{1}{2} =$

(A) $26\frac{5}{84}$ (B) $25\frac{5}{84}$ (C) $26\frac{84}{5}$ (D) $25\frac{84}{5}$

23. Full form of LCV is :

(A) Loaded Commercial Vehicle (B) Local Commercial Vehicle

(C) Light Commercial Vehicle (D) None of the above

24. Which of the following acronyms is **not** connected with the economics/financial fields ?

(A) IMF (B) USD (C) GMT (D) GDP

25. With which one of the following dance forms is Madhavi Mudugal associated ?

(A) Bharatnatyam (B) Odissi

(C) Kathak (D) Kathakali

26. Which of the following is the fastest planet ?

(A) Mercury (B) Venus (C) Earth (D) Pluto

27. SDR stands for :

(A) Special Dollar Rates (B) Special Drawing Rights

(C) State Drawing Rights (D) Special Dollar Rights

28. Raju lends a sum of ₹ 6,000 to Krishna at the rate of 10% p.a. compounded annually. Find the amount to be paid by Krishna to Raju at the end of 2 years.

(A) ₹ 6,600 (B) ₹ 7,200

(C) ₹ 7,260 (D) None of the above

29. Which of the following is a mixed gland ?

(A) Pituitary (B) Adrenal (C) Pancreas (D) Ovary

30. The state having lowest area under forest cover is :

(A) Arunachal Pradesh (B) Haryana

(C) Madhya Pradesh (D) Assam

31. $(2277 \div 23) + (1950 \div 26) - (1053 \div 13) =$

(A) 92 (B) 93 (C) 94 (D) 95

32. $999816 - 391199 - 299509 + 481008 + 119194 =$

(A) 909310 (B) 790116 (C) 791016 (D) 999310

33. In which city Jallianwala Bagh is situated ?

(A) Ludhiana (B) Bhatinda (C) Jalandhar (D) Amritsar

34. A man can row $\frac{3}{4}$ of a km against the stream in $11\frac{1}{4}$ minutes and returns in $7\frac{1}{2}$ minutes. Find his speed in still water.

(A) 3 kmph (B) 4 kmph (C) 5 kmph (D) 6 kmph

35. Which of the following is called 'Bankers cheque' ?

(A) Demand Draft (B) Debit Card (C) Pay Order (D) Fixed Deposit

36. Which one of the following countries is **not** a member of ASEAN ?

(A) Russia (B) India (C) Sri Lanka (D) Bangladesh

37. $121 \times 12 \times 11 \div 8 =$

(A) 1696.5 (B) 1796.5 (C) 1896.5 (D) 1996.5

38. Zero hour in the parliament starts at :

(A) First hour of the sitting (B) Last hour of the sitting

(C) 12 noon (D) No fixed timing

39. Full form of NIIT is :

(A) National Institute of Industrial Technology

(B) National Institute of Infrastructure Technology

(C) National Institute of Information Technology

(D) None of the above

40. How much time will a Train 171 m long take to cross a bridge 229 m long if it is running at a speed of 45 kmph ?

(A) 40 seconds (B) 35 seconds (C) 32 seconds (D) 30 seconds

41. OPEC full form is :

(A) Oil and Petroleum Exporting Countries

(B) Oil and Petroleum Exporting Companies

(C) Oil and Petroleum Exporting Corporations

(D) None of the above

42. The National Judicial Academy is located at :

(A) Indore (B) Bhopal (C) Kolkata (D) Lucknow

43. Which of the following is an alkaline earth metal ?
(A) Potassium (B) Sodium (C) Francium (D) Radium

44. The value of gravity at higher altitude :
(A) decreases (B) increases
(C) remains the same (D) none of the above

45. A sells an article to B at a profit of 5% and B sells it to C at a loss of 5%. If C pays ₹ 23.94 p for it, what did it cost A ?
(A) ₹ 20 (B) ₹ 22 (C) ₹ 24 (D) ₹ 26

46. The scientist who recommended large intake of Vitamin - C for developing resistance against diseases and maintaining health was :
(A) Joseph Lister (B) Linus Pauling (C) Paul Ehrlich (D) Gobind Khurana

47. The prices of a scooter and a television set are in the ratio of 8 : 7. If scooter costs ₹ 4,000 more than television set, the price of television set is :
(A) ₹ 32,000 (B) ₹ 28,000 (C) ₹ 24,000 (D) ₹ 36,000

48. Haemoglobin is a kind of :
(A) Protein (B) Fat (C) Carbohydrate (D) Hormone

49. What kind of power has the largest share of power generation in India ?
(A) Hydroelectricity (B) Nuclear (C) Thermal (D) Solar

50. Which one of the following region of India is now regarded as an 'ecological hotspot' ?
(A) Western Himalayas (B) Eastern Himalayas
(C) Western Ghats (D) Eastern Ghats

51. India borrowed the idea of Directive Principles of State Policy from constitution of :
(A) The Weimar Republic of Germany
(B) Ireland
(C) South Africa
(D) Australia

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52. The special paper required for printing of currency notes is manufactured at :
(A) Hoshangabad (B) Nasik (C) Pune (D) Kolkata

53. India occupied Goa from the Portuguese in December of :
(A) 1958 (B) 1959 (C) 1960 (D) 1961

54. Who among the following is socialist leader ?
(A) Robert Owen (B) Saint Simon (C) Lousis Blanc (D) All of these

55. Darjeeling is a hill station of :
(A) Vindhyas (B) Himalayas (C) Sahyadri (D) Aravalli

56. The uncertainty principle was enunciated by :
(A) Einstein (B) Rutherford (C) Pauli (D) Heisenberg

57. The function of the Panchayat Samiti is to :
(A) deal with administration of justice at the panchayat level
(B) implement community development project schemes
(C) deal with financial matters of panchayat
(D) deal with rural industrialisation

58. CFC stands for :
(A) Chlorinated Freon Compound
(B) Chloro Fluro Carbon
(C) Carbonated Fluorine Compound
(D) Caustic Fluorine Carbohydrate

59. Where were the Asian games held in 2006 ?
(A) Beijing (B) Doha (C) Colombo (D) New Delhi

60. Who is the author of the book "What young India wants" ?
(A) A.P.J. Abdul Kalam (B) Chetan Bhagat
(C) L.K. Advani (D) Ashis Nandy

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61. Which of the following is used for adherence in the manufacture of face powder ?

(A) Ochers (B) Calcium stearate

(C) Talc (D) Colloidal clay

62. The northern plains of India have the largest number of :

(A) Open wells (B) Tube wells

(C) Inundation canals (D) Perennial canals

63. Full form of SEZ is :

(A) Separate Economic Zone (B) Selected Economic Zone

(C) Special Economic Zone (D) None of the above

64. AIDS virus destroys :

(A) Monocytes (B) Neutrophils (C) Barophils (D) Lymphocytes

65. $\left[7\frac{1}{7} \div 5\frac{5}{4}\right] + \left[3\frac{1}{2} \div 3\frac{3}{6}\right] - \left[2\frac{3}{4} \div 2\frac{6}{8}\right] =$

(A) 8 (B) $2\frac{1}{7}$ (C) 10 (D) $2\frac{1}{8}$

66. What is the level of sound fixed by WHO as safe noise level for cities ?

(A) 10 dB (B) 20 dB (C) 40 dB (D) 45 dB

67. Who was the first film personality to be honoured with 'Bharat Ratna' ?

(A) Satyajit Ray (B) Lata Mangeshkar

(C) M.S. Subbalakshmi (D) M.G. Ramachandran

68. Which one of the following is constant in the verification of Ohm's Law ?

(A) Potential difference (B) Current

(C) Temperature (D) Resistance

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69. X, Y, Z started a partnership business by investing ₹ 5,000 each. After 6 months 'Y' withdrew from the business and 'Z' added ₹ 5,000 to his investment. At the end of the year the total profit earned is ₹ 18,000. Find the share of 'Z' in the profit.

(A) ₹ 9,000 (B) ₹ 6,000

(C) ₹ 3,000 (D) None of the above

70. Genes which cause the death of an individual are called :

(A) Holandric genes (B) Lethal genes

(C) Mutant genes (D) Pleiotropic genes

71. What is the symbol of chemical Element of Radium ?

(A) R (B) Ra (C) Rd (D) Ru

72. Which one of the following give green colour in Fire work ?

(A) Sodium salts (B) Barium salts (C) Calcium salts (D) Potassium salts

73. The Lokayukta and Upalokayukta Act was first passed in :

(A) Maharashtra (B) West Bengal (C) Karnataka (D) Odisha

74. Who gave the first evidence of Big-bang theory ?

(A) Edwin Hubble (B) Stephen Hawking

(C) S. Chandrashekhar (D) Albert Einstein

75. A businessman marked the price of an article 20% above the cost price and allowed the purchaser 5% discount on the marked price thereby gained ₹ 8,400. Find the cost price of article.

(A) ₹ 60,000 (B) ₹ 75,000 (C) ₹ 68,400 (D) ₹ 78,400

76. The 'depression' or 'hollow' in a transverse wave is called :

(A) Wave length (B) Crest

(C) Trough (D) None of the above

77. Ozone layer above the surface of Earth provides a shield against :

(A) X - rays (B) Ultraviolet rays (C) γ - rays (D) Infrared rays

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78. The study of finger prints for the purpose of identification is called :
(A) Dactylology (B) Dactylography (C) Entomology (D) Epigraphy

79. What are the energy producing centres in the cell ?
(A) Mitochondria (B) Golgi complex
(C) Vacuole (D) None of the above

80. A medium transmits a sound wave through it by :
(A) Elasticity (B) Inertia
(C) Density (D) Elasticity and inertia

81. Every moving electron is surrounded by :
(A) a magnetic field (B) an electric field
(C) both (A) and (B) (D) none of the above

82. When was Jawahar Rozgar Yojana was launched ?
(A) 1985 (B) 1987 (C) 1989 (D) 1991

83. What is the symbol of chemical element 'Platinum' ?
(A) P (B) Pl (C) Pt (D) Pm

84. Refrigeration is a process in which the decomposition of food is :
(A) Retarted (B) Stopped (C) Speeded up (D) Delayed

85. $[1.6 \times 2.1] + [4.14 \div 1.8] - [2.52 \div 1.2] =$
(A) 3.54 (B) 3.55 (C) 3.56 (D) 3.57

86. $101.01 \times 3 \times 0.30 \times 3.1 =$
(A) 909.030 (B) 909.300 (C) 909.301 (D) 281.8179

87. A can do a work in 8 days, B can do in 6 days and C can do in 8 days. First A and B started the work. After 3 days they gave up the work and C was engaged to complete the work. How many days C takes to complete the work ?
(A) 8 days (B) 7 days
(C) One day (D) None of the above

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88. The laughing gas is :

(A) Nitrous oxide (B) Nitric oxide

(C) Nitrogen trioxide (D) Nitrogen pentoxide

89. Which of the following quantities is a vector ?

(A) Volume (B) Temperature (C) Displacement (D) Density

90. 272, 136, 68, 34, _____.

(A) 6 (B) 17 (C) 12 (D) 16

91. The famous lagoon lake of India is :

(A) Dal Lake (B) Chilika Lake (C) Wular Lake (D) Mansarovar

92. Basha travelled a distance by car at 60 kmph for 35 minutes. He further travelled by bus at 40 kmph for another 35 minutes. Find the average speed for the whole journey.

(A) 50 kmph (B) 45 kmph (C) 40 kmph (D) 35 kmph

93. The first five year plan was launched in the year :

(A) 1956 (B) 1961 (C) 1951 (D) 1950

94. Who among the following was the first Law Minister of India ?

(A) Jawaharlal Nehru (B) Moulana Abdul Kalam Azad

(C) Dr. B.R. Ambedkar (D) T. Krishnamachari

95. National Gram Puraskar is related with :

(A) Sanitation (B) Environment (C) Unemployment (D) Food production

96. Which of the following is the hotest month in South India ?

(A) May (B) June (C) April (D) July

97. In typhoid which part of the body is affected ?

(A) Heart (B) Throat (C) Intestine (D) Lung

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98. Economic planning is in :

(A) Union list (B) State list (C) Concurrent list (D) None of these

99. $787878.78 + 7878.7878 + 78.78 + 7.8 - 0.7878 =$

(A) 796843.3600 (B) 795843.3600 (C) 795843.0036 (D) 796843.0000

100. $10\frac{1}{2} \times 7\frac{3}{6} \times \frac{4}{5} \times 8\frac{4}{7} =$

(A) 510 (B) 520 (C) 530 (D) 540

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