SECTION - 1
ENGLISH

1. The characteristic of enantiomers is:
   (A) only that they are chemically identical
   (B) only that they are mirror images of each other
   (C) both (A) and (B)
   (D) none of these

2. The guardian of the Indian Constitution is the:
   (A) Supreme Court of India
   (B) High Court
   (C) President of India
   (D) Prime Minister of India

3. Repeated urination while sleeping, even after five years of age is called:
   (A) Enuresis
   (B) Tic
   (C) Stuttering
   (D) Encopresis

4. In a certain code ‘253’ means “books are old”, ‘546’ means “man is old” and ‘378’ means “buy good books”. What stands for “are” in that code?
   (A) 2
   (B) 4
   (C) 5
   (D) 6

5. Atmospheric pressure is important in the process of ________.
   (A) Blood Flow
   (B) Micturition
   (C) Reproduction
   (D) Breathing

6. In a certain code, if BHOPAL is written as EERMDI, then how will POWDER be written in the same code?
   (A) SLZAHOS
   (B) SRZGHU
   (C) NMUBCP
   (D) NRUGCU

7. The permanent stopping of the menstrual cycle in women is called:
   (A) Menopause
   (B) Menarche
   (C) Dismenorrhea
   (D) Amenorrhea

8. Which of the following vitamins is soluble in water?
   (A) Vitamin A
   (B) Vitamin C
   (C) Vitamin K
   (D) Vitamin D

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9. A is 40 metres south-west of B, C is 40 metres south-east of B, then C is in which direction from A?
   (A) South          (B) West          (C) East          (D) North-East

10. The Aligarh Muslim University was founded by:
    (A) Dr. Saifuddin Kichlu          (B) Sir Syed Ahmad Khan
    (C) Mohammad Ali Jinnah          (D) Maulana Mohammad Ali

11. Of the following, which is the most common site for metastasis in lung cancer?
    (A) Kidney          (B) Stomach         (C) Liver          (D) Spleen

12. Express 45 minutes as a fraction of a day:
    (A) \(\frac{1}{32}\)          (B) \(\frac{1}{40}\)         (C) \(\frac{1}{60}\)          (D) \(\frac{1}{24}\)

13. When are the chances of acute endometritis developing in a woman?
    (A) after menopause          (B) after menarche
    (C) after abortion or childbirth (D) in childhood

14. Psychoanalytic Therapy was developed by:
    (A) Sigmund Freud          (B) Jacobson          (C) Franklin          (D) Aristotle

15. What should be the temperature of water used for cold sponging?
    (A) 98°F          (B) 105°F          (C) 70°F          (D) 0°F

16. A train running at a speed of 30 metres/sec crosses a platform 600 metres long in 30 seconds. The length of the train is:
    (A) 120 metres          (B) 150 metres         (C) 200 metres          (D) 300 metres

17. Which of the following is not found in urine?
    (A) Only glucose          (B) Only protein
    (C) Only Red blood cells   (D) All of the above
18. Which of these fractions is the largest?

(A) \( \frac{6}{7} \)  
(B) \( \frac{5}{6} \)  
(C) \( \frac{7}{8} \)  
(D) \( \frac{4}{5} \)

19. Hallucination is caused by:

(A) Gastro-intestinal disorder  
(B) Mental illness  
(C) Disorder of reproductive organs  
(D) Infectious disease

20. Which artery supplies oxygenated blood to the stomach?

(A) Carotid artery  
(B) Gastric artery  
(C) Celiac artery  
(D) Cephalic artery

21. Five words are given below. Four of them are similar. Choose the word which is not similar to the remaining words:

Paper, Wool, Wood, Plastic, Leather:

(A) Paper  
(B) Wool  
(C) Wood  
(D) Plastic

22. Select the letter-series which follows the rule:

“Number of letters skipped in reverse order in between adjacent letters in the series is constant”.

(A) SPMJG  
(B) SPNLJ  
(C) SQOLJ  
(D) WUTRQ

23. Five words are given below. Four of them are similar. Choose the word which is not similar to the remaining words:

Ink, Paper, Pencil, Pen, Sharpener:

(A) Ink  
(B) Paper  
(C) Pencil  
(D) Sharpener

24. A is the brother of B. B is the son of C. D is C’s father. Then, what is A of D?

(A) Brother  
(B) Grandson  
(C) Son  
(D) Grandfather

25. Which nutrient is not found in eggs?

(A) Carbohydrate and Vitamin-C  
(B) Protein and calcium  
(C) Fat and Vitamin-D  
(D) Protein and Iron

26. Which of the following is not a symptom of depression?

(A) Loss of interest in daily activities  
(B) Delusion of guilt  
(C) Suicidal ideas  
(D) Delusion of grandiosity

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27. The goal of management of Glaucoma is:
   (A) Only to increase the inflow of aqueous humor
   (B) Only to increase the outflow of aqueous humor
   (C) Only to increase the production of aqueous humor
   (D) All of these

28. Which is the best test for detecting Liver dysfunction?
   (A) Serum albumin  (B) Serum bilirubin  (C) SGPT  (D) Prothrombin time

29. Find the next term in the series:
   A3B, C7D, E11F, G15H, ___?
   (A) I20J  (B) I19K  (C) J19K  (D) I19J

30. Select the letter-series which follows the rule:
   "Number of letters skipped in between adjacent letters in the series doubles every time".
   (A) ADIPY  (B) BDGLU  (C) EGJOF  (D) GJNSY

31. 8th April 1930 is well known in history of India because this date is associated with:
   (A) Dandi March by Mahatma Gandhi
   (B) Quit India Movement
   (C) Partition of Bengal
   (D) Partition of India

32. Select the pair which has the same relationship as the pair Birds : Wings.
   (A) Whale : Water  (B) Dog : Lungs  (C) Car : Wheel  (D) Pen : Paper

33. Out of the "chemical forces" or bonds listed below, the strongest one is ________.
   (A) Van der waal's  (B) Dipole  (C) Covalent  (D) Hydrophobic

34. Which valve prevents backward flow of blood into the left atrium?
   (A) Aortic valve  (B) Pulmonary valve
   (C) Tricuspid valve  (D) Mitral valve

35. The ________ membranes surround the lungs.
   (A) pericardial  (B) mediastinal  (C) pleural  (D) peritoneal
36. When two numbers are separately divided by 33 the remainders are 21 and 28 respectively. If the sum of the two numbers is divided by 33 the remainder will be:
   (A) 10  (B) 12  (C) 14  (D) 16

37. Which complication of IV infusion can cause pulmonary edema or heart failure?
   (A) Infiltration  (B) Circulatory overload
   (C) Infection    (D) Pyrogenic reactions

38. Abnormal communication between the urinary and genital tract is called Geneto Urinary__________.
   (A) Fistula  (B) Tumour  (C) Atresia  (D) Prolapse

39. What is the main reason for angina pectoris?
   (A) Neurological disease  (B) Gastric disease
   (C) Respiratory disease   (D) Cardiac disease

40. Which division of the nervous system initiates a response known as fight or flight?
   (A) The parasympathetic nervous system
   (B) The sympathetic nervous system
   (C) The somatic nervous system
   (D) None of these

41. The commonest cause of maternal morbidity in India is:
   (A) Anaemia  (B) Haemorrhage  (C) Abortion  (D) Sepsis

42. Find the next number in the series:
    11, 16, 23, 32, 43, ___?
   (A) 56  (B) 55  (C) 57  (D) 54

43. Find the next number in the series:
    885, 870, 855, 840, ___?
   (A) 835  (B) 855  (C) 825  (D) 815

44. World's first White Tiger Safari is set to come up in which state of India?
   (A) West Bengal  (B) Kerala  (C) Madhya Pradesh  (D) Gujarat
45. Out of the following, which medicines are used for intestinal evacuation?
   (A) Cathartics  (B) Carminatives  (C) Astringents  (D) Antimycotics

46. The abolition of “Sati” by government regulation was at the time of:
   (A) Warren Hastings  (B) Lord Wellesley
   (C) Lord Amherst  (D) Lord Bentinck

47. The destruction of alveolar walls is called:
   (A) Emphyema  (B) Bronchitis  (C) Emphysema  (D) Lung abscess

48. According to World Health Organisation, “low birth weight” means a weight of less than:
   (A) 2.8 Kgs  (B) 2.7 Kgs  (C) 2.5 Kgs  (D) 2.3 Kgs

49. An agent which kills pathogenic bacteria is called:
   (A) Asepsis  (B) Disinfectant  (C) Fomite  (D) Bacteriostat

50. Select the pair which has the same relationship as the pair Spider : Web.
   (A) Ink : Pen  (B) Poet : Poetry  (C) Cock : Hen  (D) Teacher : Student

51. Vitamin B1 is also known as:
   (A) Niacin  (B) Thiamine  (C) Riboflavin  (D) Pyridoxin

52. A bag contains ₹90, comprising 50 paisa, 25 paisa and 10 paisa coins. If the ratio of 50 paisa, 25 paisa and 10 paisa coins is 2 : 3 : 5, then the number of 25 paisa coins will be:
   (A) 80  (B) 120  (C) 100  (D) 135

53. In a certain code language, ‘479’ means “fruit is sweet”, ‘248’ means “very sweet voice” and ‘637’ means “eat fruit daily”. Which digit stands for “is” in that language?
   (A) 4  (B) 7  (C) 9  (D) 8

54. A and B can do a job in 72 days. B and C can do the same job in 120 days, and A and C can do the same job in 90 days. In how many days will all the three take to complete the job?
   (A) 80 days  (B) 100 days  (C) 60 days  (D) 150 days
55. If gut motility is increased then:
   (A) Drug absorption is decreased  (B) Drug absorption is increased
   (C) Drug absorption is not affected  (D) Nothing definite can be said

56. Name the Indian participant in Miss World 2014 competition.
   (A) Vanya Mishra  (B) Priyanka Chopra
   (C) Koyal Rana  (D) Navneet Kaur Dhillon

57. An energy consuming process by which cells of the human body absorb molecules (such as proteins) by engulfing them is called _________.
   (A) lipid diffusion  (B) aqueous diffusion  (C) exocytosis  (D) endocytosis

58. If the IQ of a child is 45, in which category of Mental Retardation will he be categorised?
   (A) Mild mental retardation  (B) Moderate mental retardation
   (C) Severe mental retardation  (D) Profound mental retardation

59. Data (information) is stored in computers in the form of:
   (A) Files  (B) Directories  (C) Floppies  (D) Matter

60. The device primarily used to provide a hard copy is the:
   (A) Hard Disk  (B) CPU  (C) Printer  (D) Card Reader

61. If the cost price of 10 chairs is equal to the selling price of 16 chairs, then the loss percent is:
   (A) 37.5%  (B) 20%  (C) 9.6%  (D) 17.5%

62. Out of four numbers, the average of first 3 is 15 and the average of the last 3 is 16. If the last number is 19, the first number is:
   (A) 19  (B) 15  (C) 16  (D) 18

63. CAD stands for:
   (A) Computer Aided Design  (B) Computer Algorithm for Design
   (C) Computer Applications for Design  (D) None of these

64. Kalyani is the mother in law of Veena, who is sister-in-law of Ashok. Dheeraj is the father of Sandeep, the only brother of Ashok. How is Kalyani related to Ashok?
   (A) Mother-in-law  (B) Mother  (C) Aunt  (D) Wife
65. Still-birth rate includes babies dead after:
   (A) 20 weeks   (B) 24 weeks   (C) 28 weeks   (D) 32 weeks

66. In which organ does the maximum absorption of Iron take place?
   (A) Stomach   (B) Small Intestine   (C) Colon   (D) Liver

67. A man sold an article at a loss of 20%. If he had sold it for ₹ 50 more, he would have gained 5%. The cost price of the article was:
   (A) ₹ 250   (B) ₹ 300   (C) ₹ 180   (D) ₹ 200

68. Entomology is the science that studies:
   (A) behaviour of human beings   (B) insects
   (C) behaviour of ants   (D) formation of rocks

69. In which state is the Tehri Hydro-electric project located?
   (A) Himachal Pradesh   (B) Uttar Pradesh
   (C) Uttarakhand   (D) Bihar

70. Which of the following types of dances is essentially a solo dance?
   (A) Kuchipudi   (B) Manipuri   (C) Kathak   (D) Mohiniattam

71. Select the pair which has the same relationship as the pair Iodine : Goitre.
   (A) Mango : Anaemia   (B) Insulin : Diabetes
   (C) Hormones : Cancer   (D) Fat : Obesity

72. The simple interest on a certain sum at a rate of 5% per annum for 3 years and 4 years differs by ₹ 42. The sum is:
   (A) ₹ 210   (B) ₹ 280   (C) ₹ 750   (D) ₹ 840

73. Lavani is a:
   (A) Marathi Folk song   (B) Musical Instrument
   (C) Indian Language   (D) None of these

74. A 150 metre long train crosses a 500 metre long bridge in 30 seconds. What time will it take to cross a platform 370 metre long?
   (A) 36 seconds   (B) 30 seconds   (C) 24 seconds   (D) 18 seconds

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75. The average age of a husband and wife is 23 years at the beginning of their marriage. After five years they have a one year old child. The average age of the family of three, when their child was born is :

(A) 23 years (B) 18 years (C) 24 years (D) 20 years

76. The central point in Ashoka’s dharma was :

(A) royalty to kings (B) peace and non-violence
(C) respect to elders (D) religious toleration

77. The ‘p’ wave on the electrocardiogram corresponds to :

(A) atrial depolarization (B) atrial repolarization
(C) ventrical depolarization (D) ventrical repolarization

78. Who will take over as Director of the Intelligence Bureau in India from Jan 1, 2015 onwards ?

(A) Arun Majumdar (B) Nehchal Sandhu
(C) Syed Asif Ibrahim (D) Dineshwar Sharma

79. Commonest cause of neonatal morbidity in India is :

(A) Diarrhoeal diseases (B) Birth injuries
(C) Congenital anomalies (D) Prematurity and low birth weight

80. The rate of drug absorption is greatest in the ________.

(A) large intestine (B) stomach (C) gall bladder (D) small intestine

81. The process of taking food into the digestive system is :

(A) Ingestion (B) Propulsion (C) Digestion (D) Elimination

82. A computer program which translates one program instruction at a time into machine language is called ________.

(A) CPU (B) Compiler (C) Simulator (D) Interpreter

83. Which colour of light has the longest wavelength ?

(A) Violet (B) Blue (C) Red (D) Green

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84. Which of the following is significantly different between human and cow's milk?
   (A) Proteins and Fat  (B) Proteins and sugar  
   (C) Proteins and Lactose (D) Minerals  

85. After menopause in women the chances of her developing osteoporosis increase because of:
   (A) Decrease in oestrogen levels  (B) Increase in oestrogen levels  
   (C) Decrease in LH levels  (D) Decrease in FSH levels  

86. In a certain code, APRIL is written as BQSJM. What is the word whose code is HSFFO?
   (A) INDIA  (B) GREAT  (C) TREES  (D) GREEN  

87. Find the missing term:
   PART : TRAP : : POTS : __?
   (A) TOPS  (B) OPTS  (C) STOP  (D) SPOT  

88. Which of these is an example of a neurotransmitter?
   (A) Only Dopamine  (B) Only Norepinephrine  
   (C) Only Acetylcholine (D) All of these  

89. The reason why lipstick and nail-polish is removed before surgery is:
   (A) Surgery becomes easier  (B) Surgery becomes more successful  
   (C) Psychological benefits to the patient  (D) Cyanosis is checked  

90. Which of the following is a main side effect of an Intra-Uterine Device?
   (A) Vaginal Bleeding  (B) Pelvic Inflammatory disease  
   (C) Uterine perforation  (D) Ectopic pregnancy  

91. Which of the following are the fastest, biggest and most expensive computers?
   (A) Personal Computers  (B) Super computers  
   (C) Laptops  (D) Notebook PCs  

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92. 3 men or 5 women can do a job in 12 days. How long will 6 men and 5 women working together take to complete the job?
   (A) 4 days    (B) 5 days    (C) 6 days    (D) 7 days

93. Most drugs have a molecular weight between:
   (A) 1 - 10    (B) 10 - 100    (C) 250 - 350    (D) Greater than 500

94. The main function of kidney is to:
   (A) eliminate oxygen
   (B) regulate fluid balance and removing waste products
   (C) metabolise vitamins
   (D) eliminate carbon dioxide

95. Different seasons are formed because:
   (A) Sun is moving around the Earth    (B) Earth is moving around the Sun
   (C) Earth rotates on its own axis    (D) None of these

96. A man started walking with his back towards the Sun. After sometime, he turned left, then he turned right and then towards the left again. In which direction is he going now?
   (A) North or South    (B) East or West    (C) North or West    (D) South or West

97. Barack Obama will become the ______ President of America to participate in India’s Republic Day celebrations on Jan 26, 2015.
   (A) Second    (B) First    (C) Third    (D) None of these

98. A sailor goes 12 km downstream in 48 minutes and returns in 1 hr and 20 minutes. The speed of the sailor in still water is:
   (A) 12 km/hr    (B) 12.5 km/hr    (C) 13 km/hr    (D) 15 km/hr

99. The speed of a boat along the stream is 12 km/hr and against the stream is 8 km/hr. The time taken by the boat to sail 24 km in still water is:
   (A) 2 hours    (B) 2.4 hours    (C) 3 hours    (D) 1.2 hours

100. If X is the brother of the son of Y’s son, how is X related to Y?
     (A) Son    (B) Brother    (C) Cousin    (D) Grandson

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