

EVERYDAY SCIENCE : BIOLOGY -NO.3

Time: 30 minutes

Marks: 100

- Which of the following is not a natural fibre?
A. Nylon B. Cellulose C. Cotton D. Starch
- Which pair is not correctly matched?
A. Insulin - Diabets B. Virus - AIDS C. Jaundice - Kidney D. Bacteria - Typhoid
- Which one of the following is not an asexual reproduction?
A. Binary fission B. Sporulation C. Regeneration D. Conjugation
- The chemistry of vision is associated with vitamin
A. B B. A C. G D. D
- The disease beri-beri is caused by the deficiency of which vitamin in the body?
A. Vitamin C B. Vitamin A C. Vitamin B D. Vitamin K
- Which one of the following secretes hormones in the human body?
A. Plasma cells B. Endocrine glands C. Salivary glands D. Prostate glands
- What is the correct sequence of the following in a heart attack?
A. Narrowing of the inner orifice of the vessel
B. 'Plaque' from fibrous tissue and high cholesterol
C. Inadequate supply of blood and oxygen
D. Clots of blood carried into the coronary arteries
Choose the answer from the codes given below:
A. 1, 2, 3, 4 B. 2, 4, 1, 3 C. 2, 3, 1, 4 D. 4, 2, 1, 3
- Which of the following statements are true of mongolism or Down's syndrome?
1. Mongoloid child has a total of 47 genes
2. Children born to older women are more likely to be mongoloids
3. It is sex-linked
4. Mongoloids have eye slit - like, flat nose and protruding tongue
Choose the answer from the codes given below:
A. 1 and 2 B. 2 and 3 C. 3 and 4 D. 2 and 4
- Which of the following are characteristics shown by a breast-fed baby when compared to a bottle-fed baby?
1. It is less obese 2. It shows greater capacity to resist diseases
3. It gets more vitamins and proteins 4. Its growth in height is abnormal
Select the correct answer from the codes given below
A. 1, 2 and 3 B. 1, 2 and 4 C. 1, 3 and 4 D. 2, 3 and 4

10. The disease jaundice is associated with the organ
A. Lungs B. Liver C. Teeth D. Brain
11. The head is jointed to the vertebral column by which type of joint?
A. Saddle joint B. Hinge joint C. Gliding joint D. Pivot joint
12. Which of the following were seen after the electron microscope was made available to the cell biologists?
1. DNA double helix 2. Chromosomes
3. Ribosomes 4. Lysosomes
Choose the answer from the Codes given below
A. 1 and 2 B. 3 and 4 C. 2 and 4 D. 1 and 3
13. Deficiency of haemoglobin in the blood causes
A. Anaemia B. Leukemia
C. Leucoderma D. High Blood pressure
14. The injection of 'anti-toxin' is given to prevent
A. typhoid B. tuberculosis C. tetanus D. Measles
15. The normal temperature of human body is
A. 98.4°C B. 36.9°C C. -37°C D. 98.5°C
16. The cross used to determine the purity of parents is
A. Monohybrid cross B. Back cross C. Test cross
D. Dihybrid cross
17. Rate of pulsation of an adult per minute is
A. 70 to 80 B. 50 to 60 C. 80 to 90 D. 90 to 100
18. Potato, ginger and turmeric are not roots but portions of the stem. This is due to the fact that.
A. they have storage food materials
B. they possess nodes internodes and scaly and foliage leaves
C. they have suberin, cutin and lignin
D. they have xylem and phloem
19. Antigen is a substance which
A. lowers body temperature B. destroys harmful bacteria
C. triggers the immune system D. is used as an antidote to poison
20. Which of the following is a body builder?
A. Fats B. Carbohydrates C. Proteins D. Vitamins
21. The vitamin which is formed by the action of ultra-violet rays of sunlight on a substance of the skin is
A. Vitamin A B. Vitamin D C. Vitamin C D. Vitamin E

22. Which of the following is an energy producer?
A. Carbohydrate B. Protein C. Mineral D. Vitamins
23. Recommended daily intake of proteins for a moderately active woman is
A. 46g B. 40g C. 37g D. 30g
24. The unit used to measure the energy released during oxidation of food is
A. Kelvin B. Joule C. Joules/kg D. Calorie
25. The mineral essential for formation of thyroxine is
A. Magnesium B. Chlorine C. Iodine D. Potassium
26. Arteries supplying blood to the heart are called
A. pulmonary arteries B. coronary arteries
C. hepatic arteries D. carotid arteries
27. The mineral essential for water balance is
A. Magnesium B. Chlorine C. Sodium D. Potassium
28. Which one of the following techniques can be used to establish the paternity of a child?
A. Protein analysis B. Quantitative analysis of DNA
C. Chromosome counting D. DNA finger printing
29. The chemical name for vitamin A is
A. Retinol or Antixerophthalmic B. Calciferol
C. Thiamine D. Tocopherol
30. Which one of the following organisms is likely to show the highest concentration of DDT, once it has been introduced into ecosystem?
A. Cattle B. Snake C. Toad D. Grasshopper
31. Deficiency of vitamin A leads to
A. Beri-beri B. Pellagra C. Rickets D. Xerophthalmia
32. The deficiency of which element causes anaemia?
A. Iron B. Sodium C. Iodine D. Manganese
33. Which one of the following food gives the maximum energy yield per gram?
A. carbohydrates B. glucose C. fat D. protein
34. The element necessary for the formation of haemoglobin and chromatin is
A. Sodium B. Iron C. Iodine D. Manganese
35. Which one of the following occurs during photosynthesis of green plants?
A. Light energy is converted into biochemical energy.
B. Light energy is destroyed
C. Light energy is stored in food molecules
D. Light energy is synthesised

36. If father has blood group A and mother has blood group O, then which one of the following blood groups may be found in their son?
 A. B B. AB C. O D. B, AB, or O
37. Two richest known sources of edible protein are
 A. meat and eggs B. some algae and other micro-organisms
 C. soyabean and groundnut
 D. milk and leafy vegetables
38. Which of the following would lead to malnutrition?
 1. Over nutrition 2. Under nutrition 3. Imbalanced nutrition
 Select the correct answer from the codes given below:
 A. 2 alone B. 2 and 3 C. 1 and 5 D. 1, 2 and 3
39. "It begins as a single cell and grows into a merciless disease that claims millions of lives year after year. But scientists are steadily unlocking its mysteries, and the fight against it may now have reached a dramatic turning point. New discoveries promise better therapies and hope in the war against". This disease referred to in the above quotation is
 A. Cancer B. AIDS
 C. Tuberculosis D. Alzheimer's disease
40. Which source of energy disturbs the human life the most?
 A. Solar energy B. Nuclear energy
 C. Thermal power D. Hydroelectric power
41. Which one of the following sets is correctly matched?
 A. Diphtheria, Pneumonia and Leprosy - Hereditary
 B. AIDS, Syphilis and Gonorrhoea - Bacterial
 C. Colour blindness, Hemophilia and Sickle cell anaemia - Sex-linked
 D. Polio, Japanese B encephalitis and Plague - Viral
42. Renin and Lactase, the enzymes required to digest milk, disappear in the human body by the age of
 A. two B. three C. five D. eight
43. Which one of the following hormones contains iodine?
 A. Thyroxine B. Testosterone C. Insulin D. Adrenaline
44. Consumption of fish is considered to be healthy, compared to the meat of other animals, because fish contains
 A. more carbohydrates and proteins B. unsaturated fatty acids
 C. saturated fatty acids D. it contains more fat
45. Who predicted that only one factor would enter into the gamete, even before meiosis was discovered?
 A. Darwin B. T.H.Morgan C. Mendel D. de Vries

46. Which of the following stages of nuclear division involves replication of DNA molecules in order to duplicate chromosomes?
A. crossing over
B. vegetative propagation
C. mitotic division
D. asexual multiplication
47. Fat present below the skin surface in our body acts as a barrier against
A. loss of heat from the body
B. loss of essential body fluids
C. loss of salts from the body
D. entry of harmful micro-organisms from the environment
48. Which one of the following food chains is correct?
A. grass-grasshopper-hawk-road
B. leaf-lion-deer-pig
C. fruit-monkey-tiger-cow
D. algae-prawn-fish-main
49. The major chemical compound found in human kidney stones is
A. Uric acid
B. Calcium carbonate
C. Calcium oxalate
D. Calcium sulphate
50. Sea sickness is due to the effect of the motion of ship on
A. internal ear
B. heart
C. stomach
D. eyes
51. A teaspoonful of which of the following has highest caloric value?
A. Groundnut oil
B. Pure ghee
C. Corn oil
D. Granular sugar
52. Cancer is caused due to
A. bacterial infection
B. non-malignant tumour
C. uncontrolled cell division
D. nutritional deficiency
53. Why do cells produce less energy for work when red blood cells count of blood goes down?
A. Low blood pressure
B. Slow rate of blood circulation
C. Poor nutrient supply
D. Poor oxygen supply
54. Carbohydrates are stored in the body as
A. glucose
B. starch
C. glycogen
D. sucrose
55. The substance lost from the human body during dehydration is
A. Iodine
B. Sodium chloride
C. Sugar
D. Potassium chloride
56. Which one of the following diseases is genetically linked?
A. Epilepsy
B. AIDS
C. Colour-blindness
D. Leucoderma
57. About 80% of the body weight in most organisms is
A. protein
B. fat
C. minerals
D. water
58. Which one of the following statements correctly defines the term vein?
A. Blood vessel that carries deoxygenated blood
B. Blood vessel that carries oxygenated blood
C. Blood vessel that carries blood towards heart

- D. Blood vessel that carries blood away from the heart
59. One half of a DNA helix is arranged in the order adenine, guanine, thymine and cytosine. In what order of the other half of the spiral arranged (starting from the same point)?
 A. Adenine, cytosine, thymine, guanine
 B. Thymine, cytosine, adenine, guanine
 C. Cytosine, thymine, guanine, adenine
 D. Guanine, adenine, cytosine, thymine
60. Which one of the following statements is not a characteristic of echinoderms?
 A. All are marine
 B. Water vascular system is present
 C. The body is segmented
 D. Adults are radially symmetrical
61. Antibodies are formed in
 A. Spleen
 B. Liver
 C. Lymph nodes
 D. Red bone marrow
62. Balanced diet is the one containing
 A. sufficient proteins, carbohydrates and fats
 B. food items containing all the nutrients which are needed in the right amounts.
 C. food items proportionately weighed in right amount
 D. food items containing minerals, vitamins and hormones
63. Which one of the following is known as protein factories of the cell?
 A. Lysosomes
 B. Chromosomes
 C. Ribosomes
 D. Golgi bodies
64. The bacteria that causes cholera is
 A. Vibrio
 B. Spirillum
 C. Bacillus
 D. Coccus
65. The vector that transmits Japanese encephalitis is
 A. Fruit fly
 B. House fly
 C. Pigs
 D. Mosquito
66. Which of the following is a water-borne disease?
 A. Cholera
 B. Influenza
 C. Small pox
 D. Malaria
67. HIV virus was identified by
 A. Hansen
 B. Robert
 C. Mayer
 D. Funk
68. Robert Koch discovered
 A. Diphtheria bacterium
 B. Tetanus bacterium
 C. Mycobacterium tuberculosis
 D. None of the above
69. The deficiency of which one of the following gives rise to a disease characterized by oedema, subcutaneous haemorrhages, anaemia, and pathological changes in the teeth and gums?
 A. Vitamin B Complex
 B. Ascorbic acid
 C. Cyanocobalamin
 D. Retinol
70. The vector that transmits cholera is
 A. Cockroach
 B. Mosquito
 C. House fly
 D. Fruit fly

71. Glaucoma leads to progressive
 A. loss of vision B. loss of hearing C. loss of ability to distinguish odours
 D. changes in speech characteristics
72. The ratio of dihybrid cross is
 A. 13 : 3 B. 9 : 7 C. 10 : 3 : 3 D. 9 : 3 : 3 : 1
73. Which one of the following substances is released into the blood stream of a normal individual following an increase in the concentration of blood sugar?
 A. Hormone B. Insulin C. Glucagon D. Enzyme
74. The incubation period of typhoid bacteria is
 A. 9-14 days B. 10-14 days C. 7-14 days D. 2-7 days
75. Polyurea means excretion of increased quantity of
 A. faeces B. sweat C. blood D. urine
76. Shigellosis is
 A. diarrhoea caused by bacteria B. diarrhoea caused by virus
 C. diarrhoea caused by food contamination
 D. None of these
77. The human heart-beat per minute at an average is
 A. 60 B. 72 C. 80 D. 90
78. An example for bacterial zoonoses is
 A. Trypanosomiasis B. Taeniasis
 C. Plague D. Mycotic disease
79. Hormones are normally absent in
 A. monkey B. rat C. cat D. bacteria
80. Polydipsia means
 A. Excretion of increased quantity of urine B. Increased intake of food
 C. Increased consumption of water D. Increased blood pressure
81. An example for bacterial zoonoses is
 A. Trypanosomiasis B. Taeniasis
 C. Plague D. Mycotic disease
82. Hydrophobia is
 A. vomiting B. dislike for water C. like for water D. stiffness
83. An example for protozoan zoonoses is
 A. Trypanosomiasis B. Kala-azar
 C. Jaundice D. Tuberculosis

84. The cells which secrete insulin are
 A. Oxyntic cells B. Beta cells C. Alpha cells D. Medullary cells
85. The normal duration for clotting of blood is
 A. 2-4 minutes B. 2-5 minutes C. 2-8 minutes D. 2-6 minutes
86. The disease colour blindness was discovered by
 A. Wilson B. Anderson C. Robertson D. Bunsen
87. Of the following which one is the biological agent of communicable disease?
 A. urea B. fat C. mycoplasma D. heat
88. Menstrual cycle occurs for about
 A. 25 days B. 14 days C. 28 days D. 30 days
89. Rh-factor was discovered by
 A. A.S.Wiener and Landsteiner B. Robertson C. Calvin
 D. Lamarck and Weisman
90. The hormone which controls blood sugar level is
 A. insulin B. adrenalin C. nor-epinephrine D. glucagon
91. Haemophilia is also known as
 A. breeder's disease B. red disease
 C. bleeder's disease D. None of the above
92. The hormone which also acts as an anti-inflammatory agent is
 A. cortisone B. nor-epinephrine C. epinephrine D. aldosterone
93. 'O' blood group persons can receive blood group are called as universal donors?
 A. O group B. B group C. AB group D. A group
94. The hormone which causes rise in blood pressure is
 A. testosterone B. adrenalin C. nor-adrenalin D. aldosterone
95. Persons with which blood group are called as universal donors?
 A. O group B. B group C. AB group D. A group
96. The hormone which causes an increase in heart beat is
 A. aldosterone B. nor-adrenalin C. adrenalin D. cortisone
97. Individuals with which blood group are called as universal recipients?
 A. B group B. A group C. AB group D. A group

98. The uterus is situated in
 A. sacral region B. pectoral cavity C. lumbar region D. pelvis cavity
99. A method to improve mankind by improving environmental condition is
 A. Euthenics B. Positive eugenics C. Eugenics D. None of these
100. The permanent birth control method for male is
 A. Vasectomy B. the condom C. Tubectomy D. Cervical cap

ANSWERS

- | | | | | | | | |
|-------|-------|-------|--------|-------|-------|-------|-------|
| 1. A | 2. C | 3. D | 4. B | 5. A | 6. B | 7. B | 8. A |
| 9. A | 10. B | 11. C | 12. D | 13. A | 14. C | 15. A | 16. C |
| 17. A | 18. B | 19. C | 20. C | 21. B | 22. A | 23. B | 24. D |
| 25. C | 26. B | 27. B | 28. B | 29. A | 30. A | 31. D | 32. A |
| 33. C | 34. B | 35. A | 36. C | 37. C | 38. B | 39. A | 40. C |
| 41. C | 42. C | 43. A | 44. A | 45. C | 46. D | 47. A | 48. D |
| 49. C | 50. C | 51. A | 52. C | 53. D | 54. B | 55. B | 56. C |
| 57. D | 58. C | 59. B | 60. D | 61. C | 62. B | 63. C | 64. A |
| 65. D | 66. A | 67. B | 68. C | 69. B | 70. C | 71. A | 72. A |
| 73. B | 74. B | 75. D | 76. A | 77. B | 78. C | 79. D | 80. C |
| 81. A | 82. B | 83. A | 84. B | 85. C | 86. A | 87. C | 88. C |
| 89. A | 90. A | 91. C | 92. A | 93. C | 94. C | 95. A | 96. C |
| 97. C | 98. D | 99. A | 100. A | | | | |