

EVERYDAY SCIENCE : BIOLOGY -NO.1

Time: 30 minutes

Marks: 100

1. Green plants carry on respiration
A. only during the day B. only when photosynthesis is going on
C. only at night D. during both day and night
2. Two elements needed for the production of chlorophyll are
A. Calcium and potassium B. magnesium and iron
C. phosphorus and sulphur D. chlorine and copper
3. During respiration green plants take in
A. water B. oxygen C. oxygen and water D. carbon dioxide
4. Speed and accuracy are the main advantages of developing
A. instincts B. tropisms C. simple reflexes D. habits
5. In the dark a green plant excretes
A. oxygen B. carbon dioxide C. hydrogen D. None of the above
6. The normal temperature of the body is
A. 96.7°F B. 97.8°F C. 98.6°F D. 97.6°F
7. The Wassermann test is used to determine whether a person has contracted
A. tuberculosis B. diphtheria C. poliomyelitis D. syphilis
8. Blood in the pulmonary artery
A. lacks carbon dioxide B. contains nitrogen C. lacks oxygen D. contains all three gases
9. The thyroid gland
A. is known as the gland of emergency B. controls the production of ACTH
C. stimulates the liver to store glycogen D. regulates the rate of metabolism
10. An example of a habit forming narcotic is
A. heroin B. quinine C. penicillin D. cortisone

11. The light sensitive zone at the rear of the eye is called
A. Cornea B. Retina C. Eyeball D. None of the above
12. If nerves to the heart are severed, the heart will
A. beat regularly B. cease functioning C. beat faster D. beat erratically
13. A plant growth substance produced by a fungus is
A. molybdenum B. auxon C. auxin D. gibberellin
14. Blood is transported to the kidney from the dorsal aorta by the
A. renal vein B. renal artery C. glomerulus D. arterioles
15. A gland known as the gland of emergency is the
A. adrenal B. thyroid C. pituitary D. parathyroid
16. Which reagent should be used in the urine test for diabetes?
A. Ammonia B. Nitric acid C. Benedict's solution D. Iodine
17. The lungs are enclosed in a set of double membrane known as
A. peritoneum B. pleural sac C. pericardium D. periosteum
18. Urea is removed from the blood by the
A. kidneys B. lungs C. large intestine D. spleen
19. Leukaemia is a type of cancer in which there is an abnormal increase in the number of
A. red blood cells B. white blood cells C. bone cells D. platelets
20. Soil erosion is caused by
A. terracing B. rotation of crops C. overgrazing D. contour ploughing
21. The adrenal gland is located next to the
A. brain B. kidney C. neck D. bladder
22. Deficiency of proteins in the human body can lead to
A. anaemia B. night blindness C. scurvy D. None of these
23. Penicillin was discovered by
A. Alexander Fleming B. Robert Koch
C. Selman Waksman D. Paul Ehrlich

24. Cancer may be cured by all of the following methods except
A. Immunisation B. Surgery C. Radium treatment D. X-ray treatment
25. A useful cover crop is
A. Rice B. Wheat C. Corn D. Bermuda grass
26. A disease that may be inherited is
A. pellagra B. trichinosis C. malaria D. hemophilia
27. Which nutrient is not able to provide energy for cell use?
A. Carbohydrates B. Water C. Fats D. Proteins
28. The type of cell in which an axon is contained is
A. bone B. dermis C. neuron D. epidermis
29. There is no pure race in the human species today because of
A. mutation B. inbreeding C. isolation D. cross-breeding
30. The mammal embryo develops in the
A. ovary B. umbilical cord C. placenta D. uterus
31. Which organ is not related to the function of excretion?
A. sweat gland B. kidney C. salivary gland D. lung
32. All of the following reproduce by asexual reproduction except
A. horse B. hydra C. paramecium D. geranium
33. A cactus is an example of a
A. saprophyte B. mesophyte C. xerophyte D. hydrophyte
34. If the cerebellum of a pigeon were destroyed, the bird would not be able to
A. oxidise food B. breathe C. fly D. digest food
35. The substance which forms a blood clot is present in the circulating blood in the form of
A. fibrinogen B. fibrin C. thrombin D. thrombokinase
36. The normal internal temperature of the human body
A. is always the same B. usually decreases during daylight hours
C. varies within narrow limits D. varies in a range of 6°C (11°F)

37. Vegetative propagation is a form of
 A. sexual reproduction B. asexual reproduction
 C. fertilisation D. conjugation
38. Which of the following is not an endocrine gland?
 A. Adrenal B. Pancreas C. Thyroid D. Pituitary
39. The formation of blood cells is known as
 A. haemopoiesis B. haemogenesis C. haematoma D. hematology
40. The changing of nutrients into protoplasm is known as
 A. Assimilation B. Digestion C. Absorption D. Oxidation
41. The outer layer of skin is called
 A. Ectoderm B. Endoderm C. Epidermis D. Dermis
42. If a cell is reduced in size when placed in the solution, the solution is called
 A. saturated B. weak C. hypotonic D. hypertonic
43. Hereditary characters were named 'genes' by
 A. George Mendel B. Johanssen C. Morgan D. Watson
44. The nerve centre for sight is located in the
 A. spinal cord B. cerebrum C. medula D. cerebellum
45. Coronary heart disease is most often found in persons suffering from
 A. high blood pressure B. anaemia
 C. low blood pressure D. hemophilia
46. The left atrium of the human heart receives
 A. blood from the venacava B. oxygenated blood
 C. blood from the left ventricle D. deoxygenated blood
47. Universal blood donors have blood type
 A. A B. B C. O D. AB
48. A toxin is a substance that
 A. is produced by all the body cells B. kills bacteria
 C. is produced by white corpuscles D. is produced by bacteria

49. As a person becomes older, his blood pressure generally
A. increases B. remains the same C. varies widely D. decreases
50. The study of living things in relation to each other and their environment is known as
A. Endocrinology B. Conservation C. Eugenics D. Ecology
51. Most important discovery in the field of biology in the present century is of
A. viruses B. genes C. sulpha drugs D. antibiotics
52. Genetic material in the cell is
A. DNA B. RNA
C. Neither DNA nor RNA D. both DNA and RNA
53. Tea is a good stimulant due to the presence of
A. nicotine B. caffeine C. morphine D. ephidrine
54. The pituitary gland is located in the
A. neck B. pancreas C. head D. abdomen
55. An average adult has a blood volume of some
A. 3-4 litres B. 4-5 litres C. 5-6 litres D. 6-7 litres
56. Who are more likely to get tapeworm infection?
A. Non-vegetarians B. Adults C. Children D. Vegetarians
57. Green plants are the basis of life of
A. omnivorous animals B. herbivorous animals
C. carnivorous animals D. All of the above
58. The inner layer of skin is called the
A. Dermis B. Cuticle C. Epidermis D. Papillae
59. A disease in which blood does not clot readily is
A. Haemophilia B. Anoxia C. Hydrophobia D. Anaemia
60. The body is like an internal combustion machine in that it
A. releases blood in chemical reactions B. digests food
C. exhales carbon dioxide D. enables us to do work
61. Nodules with nitrogen fixing bacteria are present in
A. gram B. maize C. wheat D. mustard

62. Largest flower in the world is that of
A. rafflesia B. lotus C. sunflower D. cactus
63. Science has been able to prove that there are inborn racial differences of
A. skin colour B. intelligence C. musical ability D. athletic skill
64. Insulin controls the metabolism of
A. proteins B. hormones C. carbohydrates D. fats
65. Substances usually present in largest amount in ordinary food are
A. carbohydrates and proteins B. proteins and minerals
C. carbohydrates and vitamins D. minerals and vitamins
66. Which of the following is not fruit?
A. Potato B. Cucumber C. Tomato D. Pumpkin
67. According to a hypothesis, the first living organisms obtained energy directly from
A. organic molecules in the ocean B. the sun
C. oxygen in the atmosphere D. carbon dioxide and water
68. The part of earth and its atmosphere which is inhabited by living beings is known as
A. Ecosphere B. Hydrosphere C. Biosphere D. Atmosphere
69. The process of double fertilisation was discovered by
A. J.C.Bose B. Leeuwenhock C. Hofmeister D. Nawaschin
70. In transfusions, the blood must be compatible not only in blood type but also in
A. Rh factor B. number of red cells
C. number of white cells D. race of donor and recipient
71. An electrocardiogram is used to detect malfunctioning of the
A. circulatory system B. nervous system
C. respiratory system D. digestive system
72. Which of the following is most likely to be used for exercise of certain muscles
A. laryngoscope B. stereoscope C. kaleidoscope D. cryoscope
73. Much of the credit for developing the compound microscope is given to
A. Needham B. Harvey C. Van Leeuwenhoek D. Redi

- B. an artery C. a vein D. nerves
75. Plankton is composed of
 A. fish B. sharks C. whales D. microscopic life
76. The greatest number and widest variety of plants and animals would be found in
 A. steppes B. tropical rain forests C. Tundras D. deserts
77. Phosphorus deficiency hinders
 A. cell division B. cambial activity and reduction of nitrates
 C. normal growth D. chlorophyll formation
78. Which substance received widespread attention in investigations concerning diseases of the heart and blood vessels?
 A. Protein B. Lipase C. Glycerol D. Cholesterol
79. Calcium metabolism is controlled chiefly by the
 A. thyroid glands B. adrenal glands C. parathyroid glands D. thymus glands
80. Which plant has the smallest flower
 A. Wolfia B. Delonix C. Rosa D. Rafflesia
81. Insectivorous plants grow in the soil which is deficient in
 A. phosphorus B. nitrogen C. water D. calcium
82. The transfer of materials between organisms and the environment is known as a
 A. synthesis B. free gas C. niche D. cycle
83. Motive force of growth is
 A. Osmotic pressure B. Imbition pressure C. Turgor pressure
 D. All of these
84. Response of a plant to the relative lengths of light and dark periods is known as
 A. Epinasty B. Vernalisation C. Photopenodis D. Hyponasty
85. The food in onion is stored in the form of
 A. sugar B. cellulose C. glucose D. starch
86. Which hormone is often used to stimulate the heart?
 A. Secretin B. Auxin C. Insulin D. Adrenalin

87. Olive trees grow in
 A. mediterranean type regions B. temperate type regions
 C. equatorial type regions D. tropical type regions
88. Physiology is mainly concerned with
 A. activity of the body B. diseases of the body
 C. growth of the body D. structure of the body
89. Coronary thrombosis refers to a blood clot in the circulatory system of the
 A. abdomen B. kidneys C. heart D. head
90. Which of the following pests is attached to wheat?
 A. Bruches spy B. Pthorimia opercellella
 C. Bryobia practiosa D. None of these
91. Which of the following elements do proteins, fats, and carbohydrates have in common?
 A. Sodium B. Carbon C. Nitrogen D. Sulphur
92. Aquarium is
 A. a health resort or hospital for convalescents
 B. a container, either a pond or some form of tank, in which fish, reptiles and plants are kept
 C. a machine showing motions and orbits of the planets D. None of these
93. Which disease is caused by a bacterial genus in the milk?
 A. Cholera B. Diphtheria C. Analgesia D. Typhoid
94. Anthropology is a term which applies to
 A. the study of birds B. the study of birds
 C. the science of man in relation to his life, society and environment
 D. None of the above
95. The ductless glands secrete
 A. hormones B. enzymes C. juice D. proteins
96. Camels have greater adaptability to long periods of drought in hot deserts than other animals because
 A. They have a large hump where they can store water

- B. Camels can drink very fast, as much as 1/3 of their body weight
 C. Their thick fur insulates their bodies against high external temperatures and reduces water loss
 D. Camels have a large rumen
97. Night soil when fresh contains about ——% of nitrogen.
 A. 0.3-0.4 B. 0.4-0.5 C. 0.5-0.6 D. 1.0-1.6
98. Which of the following are affected by AIDS?
 1. Blood circulatory system 2. Immune system
 3. Respiratory system 4. Nervous system
 A. 1, 2 and 3 B. 1, 3 and 4 C. 2, 3 and 4 D. 1, 2 and 4
99. Night soil when dry contains about ——% of nitrogen.
 A. 1-2 B. 2-3 C. 3-4 D. 4-5
100. Which of the following organisms cause cholera?
 A. Protozoa B. Virus C. Bacillus D. Cocci

ANSWERS

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