



BIOLOGY

(IMPORTANT QUESTIONS)

- Three important micronutrients essential for humans are
 - Copper, Zinc and iodine
 - Zinc, copper and potassium
 - nitrogen, molybdenum and iodine
 - sculpture, copper and iron
- Man cannot digest cellulose whereas cows can do so because
 - their gut contains certain bacteria capable of digesting cellulose
 - they have a many-chambered stomach
 - they have efficient grinding molars
 - they produce an enzyme cellulase which can digest cellulose
- If a mouse of over eight times its normal size has been produced by introducing human growth hormone gene, the technique involved is called
 - hybridization
 - genetic engineering
 - notation Breeding
 - hormonal feeding
- Three communicable diseases prevalent in developing countries caused by unsafe drinking water and bad sanitation are
 - acute diarrhea, cancer and gout
 - malaria, acute diarrhea and Schistosomiasis
 - onchocerciasis, leukemia and arthritis
 - rheumatism, malaria and AIDS
- Which one of following seeds can benefit a patient of diabetes mellitus by normalizing his blood sugar level?
 - coriander seeds
 - mustard seeds
 - Cumin seeds
 - Fenugreek seeds
- Hemophilia is a hereditary disease carried by
 - females and expressed by females
 - females and expressed by males
 - males and expressed by females
 - males and expressed by males
- Which one of the following vitamins is considered to be a hormone?
 - A
 - B
 - C
 - D
- Rennin and lactase, the enzymes required to digest milk, disappear in the human body by the age of
 - two
 - three
 - five
 - eight
- Hemoglobin is dissolved in the plasma of
 - frog
 - fish
 - man
 - earthworm
- Which radioactive pollutant has recently drawn the attention of the public, due to its occurrence in the building material?
 - Plutonium
 - Thorium
 - Radon
 - Radium
- The heart of human embryo starts beating in the
 - first week of its development
 - third week of its development
 - fourth week of its development
 - sixth week of its development
- 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?
 - B
 - AB
 - O
 - B, AB or O
- In the case of a *test-tube* baby
 - fertilization takes place inside the test-tube
 - development of the baby takes place inside
 - fertilization takes place outside the mother's body
 - unfertilized egg develops inside the test-tube
- In the balanced dietaries for a day of an adult working man, weights of carbohydrate food and total protein food (both superior and inferior) should be in order of
 - hormones of pituitary glands control metabolic process
 - hormones of pancreas cause such a condition
 - blood sugar is readily absorbed by liver
 - glucose undergoes autolysis
- In the balanced dietaries for a day of an adult working man, weights of carbohydrate food and total protein food (both superior and inferior) should be in order of
 - 600gm and 420 gm respectively
 - 600gm and 500gm respectively
 - 420gm and 600gm respectively
 - 420gm and 420gm respectively
- The offering substance in the liquor tragedies leading to blindness etc. is
 - ethyl alcohol
 - amyl alcohol
 - benzyl alcohol
 - methyl alcohol

17. According to the World Health Organization, the disease which causes the death of the largest number of people today is.
 (a) AIDS (b) tuberculosis
 (c) malaria (d) Ebola
18. The water pollution in river is measured by the dissolved amount of
 (a) Chlorine (b) Ozone
 (c) Nitrogen (d) Oxygen
19. Consumption of fish is considered to be healthy when compared to flies of other animals because fish contains
 (a) polyunsaturated fatty acids
 (b) saturated fatty acids
 (c) essential vitamins
 (d) more carbohydrates and proteins
20. Hemophilia is a genetic disorder which leads to
 (a) decrease in hemoglobin level
 (b) rheumatic heart disease
 (c) decrease in WBC
 (d) non-clotting of blood
21. The complete conversion of glucose in the presence of oxygen into carbon dioxide and water with release of energy is called
 (a) aerobic respiration
 (b) anaerobic respiration
 (c) glycolysis
 (d) hydrolysis
22. The major chemical compound found in human kidney stones is
 (a) uric acid (b) calcium carbonate
 (c) calcium oxalate (d) hydrolysis
23. Eco mark is given to the Indian products that are
 (a) pure and unadulterated
 (b) rich in proteins
 (c) environment friendly
 (d) economically viable
24. In eye donation, which one of the following parts of donor's eye is utilized?
 (a) Iris (b) lens
 (c) Cornea (d) Retina
25. Neem tree has acquired industrial importance as a source of
 (a) bio pesticide and anti fertility compound
 (b) anti fertility compound, bio fertilizer and anti-cancer drug
 (c) bio fertilizer, bio pesticide and anti fertility compound
 (d) anti-cancer drug, bio pesticide and bio fertilizer
26. Which one of the following genetic diseases is sex-linked?
 (a) Royal hemophilia (b) Tay-Sachs disease
 (c) Cystic fibrosis (d) Hypertension
27. Lathyrism is caused by excessive consumption of
 (a) Kesari Dal (b) mustard oil
 (c) Polished rice (d) mushrooms
28. Barium in a suitable form is administered to patients before an X-ray examination of the stomach, because
 (a) barium allows X-rays to pass through the stomach on account of its transparency to X-ray
 (b) barium compound, like magnesium sulfate helps in cleaning the stomach to appear clearly in contrast with the other regions in the picture
 (c) barium is a good absorber of X-rays and this helps the stomach to appear clearly in contrast with the other regions in the picture
 (d) barium salts are white in color and this helps the stomach to appear clearly in contrast with other regions in the picture
29. Cobalt-60 is commonly used in radiation therapy because it emits
 (a) alpha rays (b) beta rays
 (c) gamma rays (d) X-rays
30. Which of the following can cause cancer as well as cure it, depending upon its intensity and use?
 (a) chemicals (b) tobacco
 (c) ionized radiations (d) ultra-violet rays
31. Normal blood pressure of human being must be
 (a) 140/80 (b) 160/100
 (c) 120/80 (d) 140/90
32. Put the following demographic data in chronological order:
 (a) Birth rate and death rate are high
 (b) Birth rate increases and death rate decreases
 (c) Birth rate and death rate both decrease
 (a) B, A, C (b) A, C, B
 (c) C, A, B (d) C, B, A
33. Vitamin C is synonym of
 (a) hydrochloric acid (b) ascorbic acid
 (c) riboflavin (d) thiamine
34. Deficiency of vitamin C causes
 (a) Night-blindness (b) Beri-beri
 (c) Scurvy (d) Rickets
35. Hydrophobia is related to
 (a) Rabies (b) Hepatitis
 (c) Yellow fever (d) Rickets
36. The Bacteria phages are
 (a) virus that attacks bacteria
 (b) virus that attacks insect
 (c) bacteria that attacks plant
 (d) bacteria that attacks insect
37. The Universal recipient blood group is
 (a) A (b) B
 (c) AB (d) O
38. Sickle cell anemia is a
 (a) genetic disorder
 (b) virus disease
 (c) bacterial disease
 (d) disease due to Vitamin deficiency

39. A person has 'O' type blood. Which test will be performed to confirm the blood group?
 (a) Agglutinogens in A
 (b) Agglutinogens in B
 (c) **Agglutinogens in AB**
 (d) Agglutinine (A or Anti-B)
40. Vitamin E is
 (a) anti-coagulant (b) anti-rickets
 (c) **anti-oxidant** (d) none of these
41. A man is color blind but the woman is normal. In that case
 (a) male child will be color blind
 (b) female child will be color blind
 (c) both male and female children will be color blind
 (d) **both male and female children will be normal**
42. Fat is digested in the
 (a) **large intestine** (b) air pressure
 (c) space travel (d) star war
43. RH factor is a term that you will hear in connection with
 (a) **blood transfusion** (b) air pressure
 (c) space travel (d) star war
44. Which one of the following sets of symptoms result from protein deficiency during the pre school age?
 (a) **Bow legs, knock knees and pigeon chest**
 (b) Coughs, colds and fever
 (c) Fever and rashes
 (d) Stunting of growth, discoloration of hair and mental apathy
45. Iodization of salt is a public health measure to prevent
 (a) diabetes mellitus (b) tuberculosis
 (c) **goiter** (d) anemia
46. The combination of foods providing protein quality nearest to that of meat is
 (a) bread and butter
 (b) wheat, dal and groundnuts
 (c) groundnuts and jaggery
 (d) **sprouted gram and groundnuts**
47. Which one of the following bones is not in the human body?
 (a) Hummers (b) **Pericardium**
 (c) Stepes (d) Tibia
48. Anti-rabies vaccine was discovered by
 (a) Edward Jenner (b) James Lind
 (c) **Louis Pasteur** (d) Robert Koch
49. Energy is stored in the liver and muscles in the form of
 (a) **glycogen** (b) starch
 (c) fat (d) cholesterol
50. The coli form count of drinking water is done
 (a) to ascertain facial contamination
 (b) **to assess hardness of water**
 (c) to determine the effect of chlorination
 (d) to estimate the amount of suspended impurities
51. A deficiency in the secretion of hormone from the thyroid gland leads to
 (a) **sluggishness and growth retardation**
 (b) sluggishness and growth retardation
 (c) delayed development of secondary sex characteristics
 (d) defective carbohydrate metabolism
52. The organ of the body which is mainly damaged in hepatitis is
 (a) kidney (b) spleen
 (c) **liver** (d) lung
53. A scientist was treating pathogenic bacteria with different chemicals to see which of them would stop the activity of their ribosome's. Which one of the following processes is the target?
 (a) DNA synthesis
 (b) Protein synthesis
 (c) Digestion of protein
 (d) **Production of adenosine tri phosphate**
54. Thought, feeling and perception get altered when one is under the influence of
 (a) **tranquilizers** (b) hashish
 (c) morphine (d) amphetamines
55. Which of the following are known as the suicide bags of cells?
 (a) Ribosome's (b) Golgi bodies
 (c) **lysosomes** (d) Nucleoli
56. If a person vomits excessively and shows symptoms of diarrhea it is possible that in his blood serum there is a decrease of
 (a) calcium (b) iron
 (c) **sodium** (d) phosphorus
57. Night blindness could be caused by the deficiency of
 (a) **Vitamin A** (b) Vitamin B
 (c) Vitamin C (d) Vitamin D
58. Who discovered that mosquito served as carrier
 (a) Jonas Salk (b) **Ronald Ross**
 (c) Louis Pasteur (d) Robert Koch
59. Antibodies are formed in
 (a) Lymph nodes (b) **Red bone marrow**
 (c) Spleen - (d) Liver
60. Coagulation of blood in vessels is prevented during normal circulation by
 (a) **heparin** (b) pro thrombin
 (c) plasmogen (d) thermoplastic
61. Primarily, which one of the following systems of the body is attacked by the HIV?
 (a) Cardiovascular (b) **immune**
 (c) Respiratory (d) Reproductive

62. Animal flesh is a good source of high quality proteins because animal proteins are
 (a) directly taken up by muscle-tissues and add to their strength
 (b) animal proteins have all amino acids
 (c) **animal proteins carry the right proportion of amino acids needed by humans**
 (d) animal proteins are digested easily
63. Vaccines are
 (a) **same as monoclonal antibodies**
 (b) treated bacteria or viruses or one of their proteins
 (c) mhc proteins
 (d) strands of nucleic acids
64. Which one of the following sets contains an element that does NOT fit in with the rest?
 (a) DNA, RNA, Ribosome's, Enzymes
 (b) Adenine, Thymine, Cytosine, Guanine
 (c) Alanine, tyrosine, valine, leucine
 (d) **Metaphase, Anaphase, Telophase, Proteins**
65. Malnutrition includes
 (a) under-nutrition, imbalanced nutrition and over-nutrition
 (b) under-nutrition and imbalanced nutrition
 (c) under-nutrition alone
 (d) **under-nutrition and over-nutrition**
66. Which of the following is not a characteristic of a virus?
 (a) It cannot be cultivated in lifeless media
 (b) It cannot multiply by ordinary fission
 (c) It can grow outside living cells
 (d) **It cannot be controlled by antibiotics**
67. Which one of the following statements is true for the ABO classification of blood?
 (a) **AB group is a universal receptor**
 (b) AB group can accept B and O group
 (c) A group can accept B and O group
 (d) B group can accept A and O group
68. Iron deficiency causes
 (a) bone deformity (b) irregular heart beat
 (c) tooth decay (d) **anemia**
69. What is used to disintegrate bladder stones?
 (a) infrared rays (b) Ultraviolet rays
 (c) **X-rays** (d) Ultraviolet rays
70. The foul smell of rancid butter is due to
 (a) **Butyric acid** (b) Carbonic acid
 (c) static acid (d) Politic acid
71. Which of the following parts/tissues of the body can be easily transplanted in the body of another person with out any problem of rejection or reaction?
 (a) Kidney (b) Heart
 (c) Skin (d) **Cornea**
72. The gland which maintains body temperature is
 (a) **pituitary gland** (b) thyroid gland
 (c) adrenals (d) hypothalamus
73. Anemia is caused in man due to deficiency of
 (a) Folic acid (b) Vitamin A
 (c) Vitamin B-12 (d) **Iron**
74. Normal rate of heart beat in a human being is
 (a) 45/ minute (b) 42/minute
 (c) 62/minute (d) **72/minute**
75. Blood is purified by
 (a) **kidneys** (b) spleen
 (c) pancreas (d) liver
76. Which of the following is not a recognized blood group?
 (a) A (b) B
 (c) **BC** (d) AB
77. The average temperature of human body is
 (a) 30.5°C (b) **36.9°C**
 (c) 98.4°C (d) 97.4°C
78. The vitamin which can be most easily synthesized in human body is
 (a) **Vitamin D** (b) Vitamin C
 (c) Vitamin B (d) Vitamin K
79. How does Vitamin D help in growing children ?
 (a) it increases height and weight
 (b) it improves eye sight and memory
 (c) **it strengthens bones and teeth**
 (d) it provides movement to limbs
80. Liver secretes
 (a) saliva (b) sebum
 (c) **bile** (d) acid
81. Which of the following is not a source of Vitamin C?
 (a) Potato (b) Tomato
 (c) Guava (d) **Milk**
82. The vaccine triple antigen is given to children to protect them against
 (a) **Tetanus, Diphtheria and Whooping cough**
 (b) Polio, Tuberculosis and Diphtheria
 (c) Diphtheria, Polio and Tettanus
 (d) Hepatitis, Whooping Cough and Tuberculosis
83. Hemophilia means faille of the
 (a) heart to contract (b) kidney to filter
 (c) blood to clot (d) **stomach to digest**
84. The wonder drug Penicillin was discovered by
 (a) Louis Pasteur (b) **Alexander Fleming**
 (c) Edward Jenner (d) stomach to digest
85. Mineral essential for the coagulation of blood is
 (a) potassium (b) magnesium
 (c) **calcium** (d) sodium
86. Milk is an example of which of the following?
 (a) Suspension (b) Gel
 (c) **Emulsion** (d) Foam

87. The largest gland in the human body is
 (a) salivary (b) pituitary
 (c) pancreas (d) liver
88. Which of the following cannot be controlled by vaccination?
 (a) Small pox (b) Diabetes
 (c) Whooping cough (d) Polio
89. The process by which the blood carries the absorbed food products to the tissue cells, where they are taken up, is called
 (a) absorption (b) assimilation
 (c) digestion (d) ingestion
90. Which of the following is the principal organ of digestion and absorption of food in our body?
 (a) Large intestine (b) Liver
 (c) Pancreas (d) small intestine
91. Which of the following groups includes organs of the same organ system?
 (a) Trachea, esophagus, Stomach
 (b) Pancreas, lungs, Stomach
 (c) Esophagus, Rectum, Stomach
 (d) Stomach, Pancreas, Heart
92. Treatment of rabies was discovered by
 (a) Lord Lister (b) Ronald Ross
 (c) Louis Pasteur (d) Jenner
93. Sunlight provides
 (a) Vitamin B (b) Vitamin D
 (c) Vitamin C (d) Vitamin A
94. Of the following, the best source of protein is
 (a) fish (b) beans
 (c) apples (d) butter
95. Carrots contain
 (a) Vitamin A (b) Vitamin B
 (c) Vitamin C (d) Vitamin D
96. In human body vitamins B₁, B₂, B₁₂ and K are produced in the
 (a) liver (b) spleen
 (c) stomach (d) intestines
97. BCG is used to prevent
 (a) hydrophobia (b) cancer
 (c) neuralgia (d) tuberculosis
98. Which is the vitamin that is not normally found in any animal food?
 (a) Vitamin B₁₂ (b) Vitamin K
 (c) Vitamin C (d) Vitamin D
99. The outer layer of the skin is called
 (a) Dermis (b) Epidermis
 (c) Poliomyelitis (d) Leprosy
100. Which is the most fast spreading disease?
 (a) malaria (b) Plague
 (c) Poliomyelitis (d) Leprosy
101. Bronchitis is the abnormality of
 (a) liver (b) respiratory tract
 (c) kidney (d) eyes
102. Biological death of a patient means death of tissues of the
 (a) kidney (b) heart
 (c) lungs (d) brain
103. The food that has maximum calorific value contains
 (a) proteins (b) carbohydrates
 (c) fats (d) oils
104. In which of the following diseases is the use of aspirin prohibited?
 (a) Typhoid (b) Dengue
 (c) Malaria (d) Viral fever
105. Tetanus is a disease caused by
 (a) fungus (b) virus
 (c) bacteria (d) dust and clouding
106. The vaccine triple antigen is given to children to protect them against Diphtheria,
 (a) Polio and Tetanus
 (b) Whooping cough and Tetanus
 (c) Whooping cough and Tuberculosis
 (d) polio and Tuberculosis
107. Insulin is produced by the
 (a) pituitary Gland (b) gall bladder
 (c) intestines (d) pancreas
108. Ageing in human beings is caused by disappearance of which of the following glands?
 (a) thyroid (b) thymus
 (c) pituitary (d) parathyroid
109. Common cancer in Indian population is that of
 (a) mouth (b) breasts
 (c) lungs (d) uterus
110. Hay Fever and Asthma belong to the category of
 (a) deficiency diseases
 (b) degenerative diseases
 (c) hormonal diseases
 (d) allergies
111. Milk has sweet taste of its own due to a certain sugar present in it, whereas the curd prepared from milk is sour. This change involves conversion of
 (a) sucrose into succinic acid
 (b) glucose into glutamine
 (c) fructose into lactic acid
 (d) lactose into lactic acid
112. Transfer of Genetic information from one generation to the other is accomplished by
 (a) Messenger RNA
 (b) Transfer RNA
 (c) DNA
 (d) Messenger and Transfer RNA
113. Deficiency of Vitamin A causes
 (a) nyctalopia (b) cataract
 (c) presbyopia (d) hypermetropia

114. A man with blood group A can receive blood from persons having blood groups

- (a) A, O (b) A, B, O
(c) A, AB, B (d) A, B

115. Chromosomal abnormalities of an unborn child (while in mother's womb) can be found out by a technique called

- (a) CAT scanning (b) Ultrasound
(c) Amniocentesis (d) Genetic engineering

116. The longest cell in the human body in

- (a) Nerve cell (b) Muscle cell
(c) Liver cell (d) Kidney cell

117. The main function of white blood cells in the body is to

- (a) carry oxygen
(b) help in clot formation
(c) produce more red cells
(d) protect body against diseases

118. From which of the following are the artificial coloring agents for food products?

- (a) Fresh vegetables (b) fruits
(c) flowers (d) Coal tar

119. Which part of human body is first adversely affected by nuclear radiation?

- (a) Eyes (b) Lungs
(c) Skin (d) Bone marrow

120. Muscles of which of the following parts of the body are the strongest?

- (a) thigh (b) Wrist
(c) Finger (d) jaw

121. What is the general shape of the bacteria?

- (a) Spheres (b) Spirals
(c) Rods (d) Cubes