

BIOLOGY - IX

BOTANY

HIV / AIDS

1. AIDS means []
a) Acquired immuno deficiency syndrome b) Anti immune defective syndrome
c) Acquired immune defense syndrome d) Adopted immune deficiency syndrome
2. The period between child hood and adult hood is known as []
a) Middle age b) Young age c) Adolescence stage d) All the above
3. In girls pimples appear on the face due to the activation of these glands []
a) Oil glands b) Mammary glands c) Sweat glands d) a & c
4. First AIDS patient in India was recognized in the year []
a) 1986 b) 1983 c) 1990 d) 1985
5. Scaly red skin, black heads & white heads and pimples with inflammation are the symptoms of []
a) Acne b) Fever c) Allergy d) None
6. The first AIDS patient was reported from which state in India []
a) Andhra Pradesh b) Uttar Pradesh c) Karnataka d) Tamilnadu
7. Syphilis, Gonorrhoea, AIDS etc. are known as []
a) Viral transmitted diseases b) Bacterial/diseases
c) Sexually transmitted infections d) All the above
8. AIDS cannot be spread by []
a) Shaking hands with AIDS patients b) Living together with HIV + ve persons
c) Mosquitoes d) All the above
9. We can control our emotions like fear, anger, anxiety, stress, strain by []
a) Taking medicine b) Sleeping well
c) Mingling with friends d) practising yoga, meditation etc
10. The feeling of others joys and sorrows as ours is known as []
a) Endurance b) Empathy c) Enmity d) None
11. The symptoms appear within _____ years, after the entry of HIV virus into our body []
a) 3-5 years b) 5-8 years c) 6-10 years d) 1 year
12. HIV acts on our []
a) Heart b) Liver c) Respiratory system d) Immune system
13. HIV lives only in the human secretions. What is its fate if it is separated from them? []
a) It becomes inactive b) It becomes over active
c) It dies d) Don't know what happens
14. HIV belongs to which group of viruses []
a) Retrovirus b) Shin virus c) Adeno virus d) None
15. AIDS can be controlled mainly by bringing awareness about its causes, the way it spreads the way it does't spread etc among people. This is done by which organisation in India. []
a) NGO b) Social welfare Society c) NACO d) None

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13. Vegetatively propagated plants like sugarcane, grapes etc. can be improved by []
a) Mass selection b) Pure-line selection c) Clonal selection d) None
14. This is the first man made inter genetic hybrid []
a) Triticale b) Raphanoblossica c) Solano passicum d) All
15. The Process of bringing wild species under human management is called []
a) Adoption b) Domestication c) Cultivation d) None
16. Removing the anthers from the bisexual flowers of female plant before they mature, to potect against self-pollination is called []
a) Emasculation b) Sterilization c) Male sterility d) None
17. The superiority of hybrid plants over this parents is known as []
a) Hybridvigour b) Heteosis c) Super power d) a & b
18. A sudden change in a orgmism ,confined tothat generation only (ie not heritable) in called []
a) Hybridvigour b) Heterosis c) Super powr d) A & b
19. Sudden heritable genetic change in an organism is know as []
a) Mutation b) Variation c) Improvement d) None
20. This is the term used to explain the chromosome complement of a species []
a) Haploid b) Diploid c) Ploidy d) All the above
21. A substance that in capable of causing mutations is known as []
a) Mutant b) Mutagen c) Mutation agent d) Mutating chemical
22. Chromosomal number of a cell can be doubled by using []
a) Colchicines b) x –rays c) Uvrays d) Chemicals
23. A deviation from diploid (2x) status of chromosomes in called []
a) Euploid b)Aneuploid c) Polyploidy d) Meta ploid
24. A plant having more than two full sets of chromosomes is called []
a) Euploid b) Diploid c)Tetra ploid d) Pohy ploid
25. The technique used in prouding bigger size seedless fruits like water melon , pomegranate e.t.c is called []
a) Polyploidy b)Mutation c) Selection d) Hybridization
26. A number of plants are selected to make up a new naivety of plant in []
a) Mass selection b) Clonal selection c) Puleline selection d) All the above
27. Glowing seed less varieties of fruits is not very profitable in these plants []
a) Groundnut b) Sunflower c) Safflower d) All the above
28. Getting an entire plant from a single cell by growing it on cultured medium under controlled conditions is known as []
a) Biotechnology b) Genetic engineering c) Tissue culture d) None
29. Seed multiplication and seed certification is done by []
a) National seed corporation b) State seed corporation
c) Both d) None
30. A farmer obtained a packet of cotton seeds from an agent ,who said that it wil give good yield . The packet is having a golden yellow label on it .What type of seed in it ? []
a) Foundation seed b) Bleeder seed c) Certified seed d) None
31. The seed having highest genetic purity is called []
a) Nucleus seed b) Bleeder seed c) Foundation seed d) Certified Seed

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49. The following are dreaded viral disease seen in poultry []
a) Fowl pox b) Ranikhet c) Both d) None
50. Chicks in the poultry can be protected from disease by []
a) Giving tablets b) Providing good balanced diet
c) Vaccinating d) Giving treatment to the disease

NATURAL RESOURECES

1. Material present in large quantities and held in resesue for tuture use []
a)Resource b) Pollution c) Planets d) Atmosphere
2. Renewable resources can be renew by means of []
a)Recyclines b) Reproduction c) Replacement d) All
3. Coal ,petroleum , minerals are example for []
a)Renewable resources b) Non renewable resources
b)Both a and b d) None
4. Chief component of our planet []
a)Land b) Water c) Wal d) Petrdeum
5. Amount of fresh water available is []
a)97% b) 80 % c) 3 % d) 5%
6. Chief cornponent of blood is []
a)Water b) Blood cells c) Soil d)mimeses
7. Constant exchange of water between sea ,land and atmosphere is []
a)Nitrogen cycle e b) 'Oxygen cycle c) Clbon cycle d) Hydrological cycle
8. Large amount of fresh water is present in []
a)Polar ile laps b) Lakes c) Seas d) Rivers
9. Very few animals and plants are present in desert because []
a)There is land b) There is very little water
c)There are no roads d) If is not in desert
10. Air is a mixture of gas unsounding earty. This is called []
a)Pressure b) Atmosphere c) CO_2 d) Vapour
11. Green house effect of this atmosphere is due to the presence of []
a) O_2 in air b) CO_2 in air c) Nitrogen in air d) Methane
12. Chlerofloro hydrocorals destroy []
a)Atmosphere b) Water and vegetables
c) Green house d) Carbana dioxide
13. Pre biotic soop consists of []
a)Water b) water and vegetables
c) water and meat d) Water and chemicals
14. Which are identified to be the earliest tiuing from : []
a) Protolea b) Small plants c) Cyanobacteria d) Fungi
15. Which gas was absent in astrosphere when earth was formed []
a) Methane b) hydrogen c) oxygen d) Ammonia
16. Experiments on the origin of life was conducted by []
a) Aristotie b) Daswin c) Stanleyvilles d) Lamarck

ORGANISMS HABITAT & ECOCOLOGICAL BALANCE

1. Hibernation means []
 a) Summer sleep b) Winter sleep c) Night sleep d) No sleep
2. Animals permanently lives in cause do not have []
 a) Nose b) Eyes c) Legs d) Stomach
3. Aestivation is seen during []
 a) Summer b) Winter c) Spring d) An times
4. Leaves in desert plants are covered by []
 a) Moisture b) Fur c) Hair d) Wax
5. Pillion thermal animals are []
 a) Warm blooded b) Cold blooded c) Normal temp d) High temp
6. Example for hibernating animals []
 a) Fish b) Amphibians c) Birds d) Reptiles
7. To prevent water loss term body marine organisms use []
 a) Ammonia b) Urea c) Uric acid d) Glucose
8. For every 10 metres depths the decrease in atmospheric pressure is []
 a) 1 b) 2 c) 3 d) 4
9. Organisms living in surface waters []
 a) Phytoplankton b) Zooplankton c) Pelagic organisms d) Nekton
10. Which organism is called Portuguese – man of war []
 a) Mollusca b) Plutealia c) Starfish d) Crocodile
11. The place where river joins the sea is []
 a) Estuary b) Nekton c) Benthic zone d) Abyssal zone
12. In the deepest layer of the sea it is []
 a) Dark b) Cold c) Dark & cold d) Dark & warm
13. Tropic level in an ecosystem represents the []
 a) Water level b) Energy level c) Salt level d) Oxygen level
14. Which of the following represent a part of biosphere []
 a) Forest b) River c) Open sea d) Polar ice cap
15. Which one of the following is a physical component in a terrestrial ecosystem []
 a) Type of soil b) Types of salts in soils
 c) Total salt content of soil d) Total content of organic
16. Catalytic converters are used in []
 a) Automobiles b) Wind mills c) Poultry farms d) Dairy farms
17. The gas used for killing bacteria in water is []
 a) Nitrogen b) Carbonyl hydride c) Chlorine d) Helium
18. The pollutant present in coal mine exhaust []
 a) Carbon monoxide b) Carbon dioxide c) Water vapour d) Ash
19. Excess acts as stimulus for : []
 a) Hydrogen b) Oxygen c) Carbon dioxide d) Carbon monoxide
20. Electrostatic precipitators are used to []
 a) Reduce dust b) Reduce smoke c) Reduce air d) Reduce friction
21. Trimethyl lead is formed by burning []
 a) Wood b) Kerosene c) Petrol d) Coal

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22. The stonily of physical ,chemical and biological aspects of fresh locates is []
a) Hydrology b) Oceansrephy c)Limniosy d) Genctics
23. Animals living fresh weter posses []
a) gills b) Wings c) Suckers d) Scales

KEYSHEET

HIV / AIDS

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. A | 2. C | 3. D | 4. A | 5. A |
| 6. D | 7. C | 8. D | 9. D | 10. B |
| 11. A | 12. D | 13. C | 14. A | 15. C |
| 16. C | 17. D | 18. B | | |

CROP IMPROVEMENT

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|-------|-------|-------|-------|-------|
| 1. B | 2. B | 3. A | 4. B | 5. C |
| 6. D | 7. C | 8. A | 9. A | 10. A |
| 11. D | 12. B | 13. C | 14. D | 15. B |
| 16. A | 17. D | 18. B | 19. A | 20. C |
| 21. B | 22. A | 23. B | 24. D | 25. A |
| 26. A | 27. D | 28. C | 29. C | 30. B |
| 31. B | 32. B | 33. D | 34. C | 35. D |
| 36. D | 37. D | 38. B | 39. D | 40. C |
| 41. A | 42. D | 43. C | 44. B | 45. B |
| 46. C | 47. B | 48. B | 49. C | 50. C |

ZOOLOGY

UNIT- I

Organisation of Life

1. Both living and non-living forms are made of atoms of same elements but why the living organisms can perform certain activities which non-living things can not perform []
 - a) The iron present in living forms is more strong
 - b) The elements present in living and non-living forms do not obey the same rules of physics and chemistry
 - c) The arrangement and organisation of atoms make the difference in their behaviour
 - d) None of the above
2. Which of the following is not correct? []
 - a) Robert Brown discovered the cell
 - b) Scheiden and Schwann formulated the cell theory
 - c) Virchow explained that cells are formed from pre-existing cells
 - d) A unicellular organism carries out the life activities with in a single cell
3. New cells generate from []
 - a) Bacterial fermentation
 - b) Regeneration of old cells
 - c) abiotic cells
 - d) Pre-existing cells
4. Which of the following statement is correct? []
 - a) Both animal and plant cells have a cell wall
 - b) Cell of all living organisms have a nucleus
 - c) In prokaryotes there no membrane bound organelles
 - d) Cells are formed from abiotic material
5. Nucleus was discovered by []
 - a) Robert Koch
 - b) Leeuwen hock
 - c) Robert Brown
 - d) Robert Hooke
6. Schleiden and Schwann are connected with []
 - a) Theory of cell lineage
 - b) Cell theory
 - c) Protoplasm physical basis of life
 - d) nuclear control of cell
7. Who discovered the cell in a thin section of cork? []
 - a) Schwann
 - b) schleiden
 - c) Robert Hooke
 - d) Leeuwenhoek
8. Nucleus was first discovered by Robert Brown in the year []
 - a) 1665
 - b) 1831
 - c) 1838
 - d) 1810
9. Who discovered the existence of unicellular organism? []
 - a) Robert Brown
 - b) Leeuwenhoek
 - c) Pasture
 - d) Schwann
10. Mitochondria are absent in []
 - a) Algae
 - b) Amoeba
 - c) Bacteria
 - d) Euglena
11. Match the items listed in column I with appropriate items in column II []

Column I	Column II
i) Diffusion of solvent	a) Exocytosis
ii) Diffusion of fluid material	b) Active transport
iii) Release of material from cells	c) Phagocytosis
iv) Intake of solid particles	d) Osmosis
v) Expenditure of energy	e) Pinocytosis
a) d, e, a, c, d	b) e, a, c, b, d
	c) b, d, e, a, c
	d) a, e, b, d, c

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12. Largest single cell of a multicellular organism is []
 a) Nerve cell b) Ostrich egg c) Muscle cell d) Epithelial cell
13. The longest cell is []
 a) Bone cell b) Epithelial cell c) Nerve cell d) Blood cell
14. Golgi apparatus are lacking in []
 a) Liver cells b) yeast c) higher plants d) Cyanobacteria
15. Membrane covering is lacking around []
 a) Lysosome b) Ribosome c) Mitochondria d) Plastids
16. The major component in protoplasm is []
 a) Carbohydrates b) lipids c) Proteins d) Water
17. Common to all the cells from bacteria to man or plant is []
 a) Mitochondria and chloroplast b) Ribosomes and Golgi complex
 c) Plasma membrane and protoplasm d) Protoplasm and Endoplasmic reticulum
18. Pick the odd-men out []
 a) Cytoplasm b) Nucleoplasm c) Chromatin d) Nucleolus
19. Power houses of the cell are []
 a) Lysosomes b) Mitochondria c) Ribosomes d) Endoplasmic reticulum
20. Lysosomes are called as []
 a) Suicidal bags of cell b) Power houses of cell
 c) Kitchens of cell d) Sugar factory
21. The organelle regarded a sugar factory in an autotrophic eukaryotic cell []
 a) Autotrophic eukaryotic cell b) Mitochondria
 c) Endoplasmic reticulum d) Ribosomes
22. Pick out the wrongly matched one []
 a) Mitochondria – Oxidising carbohydrates b) Lysosomes – Intracellular digestion
 c) DNA – Genetic material d) Ribosomes – Cell movements
23. Pick out the rightly matched one []
 a) Cytoskeleton - Mechanical support to cell and participate in cell movements
 b) Golgi complex - Photosynthesis
 c) Endoplasmic reticulum - Cell division d) Nucleus - Digestion
24. Match the following []
 i) Chloroplast a) RNA factories
 ii) Ribosomes b) Sugar factories
 iii) Smooth endoplasmic reticulum c) Protein factories
 iv) Nucleolus d) Lipid factories
 a) a, b, c, d b) d, c, b, a c) b, c, d, a d) c, d, b, a
25. Groups of ribosomes are called as []
 a) Polysomes b) Oxysomes c) Peroxisomes d) Desmosomes
26. Cell wall is absent in []
 a) Bacteria b) Algae c) Fungi d) Animals
27. The major component of cell wall is []
 a) Protein b) Fat c) Water d) Carbohydrates
28. Cellulose is absent in the cell wall of []
 a) Bacteria b) Plants c) Animals d) Trees
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29. An animal cell bursts when placed in []
 a) Isotonic solution b) Hypotonic solution c) Sugar solution d) Hypertonic solution
30. Plant cell wall possesses []
 a) Cellulose b) Hemicellulose c) Pectin d) All the above
31. Adjacent cells in a plant cell are connected through []
 a) Plasmodesmata b) Matrix c) Nucleus d) RER
32. The membrane surrounding the vacuole is []
 a) Tonoplast b) Nucleoplast c) Vacuoplast d) Chloroplast
33. Centrioles and centrosomes occur in the cells of []
 a) Green plants b) Animals c) Bacteria d) Both b and c
34. Young tomatoes are white in colour as they mature they turn to green and then to red in colour. This shows []
 a) Tomatoes are sweet and sour
 b) Plastids have capacity to change from one form to other
 c) Tomatoes are rich in vitamin 'c' d) Tomatoes are good for health
35. Match the following []
 i) Centrioles a) Pollination
 ii) Leucoplast b) Cell division
 iii) Chloroplast c) Store the food
 iv) Chromoplast d) Photosynthesis
 a) b, c, d, a b) a, b, c, d c) b, c, a, d d) d, c, b, a
36. Significance of mitosis is []
 a) Quick division b) Increasing cellular mass
 c) Occurrence in energy tissue
 d) Production of cells, genetically similar to parent cell
37. Meiosis is []
 a) Equational division b) Multiplication division
 c) Disjunctive division d) Reductional division
38. Plants and animals make their beginning with a Single cell called []
 a) Pollen cell b) Zygote c) Somatic cell d) Germ cell
39. Pick out the wrongly matched one []
 a) Germ cell - Pollen mother cell
 b) Somatic cell - Megaspore mother cell
 c) Mitosis - Somatic cells
 d) Meiosis - Germ cells
40. Mitotic cell division results in []
 a) Two diploid daughter cells b) Two haploid daughter cells
 c) Four diploid daughter cells d) Four haploid daughter cells
41. Select the wrong statement []
 a) Meiosis results in four haploid daughter cells
 b) A cell with two sets of chromosomes is a diploid cells
 c) Doubling of the number of chromosomes is not a major event during cell division
 d) Inter phase is the period when the cell grows in size and performs the physiological functions

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56. Division of labour is not mesoderm. []
 a) Amoeba b) Volvox c) Earthworm d) Plants
57. The fundamental simple tissue in plants is []
 a) Collenchyma b) Sclerenchyma c) Parenchyma d) Xylem
58. Which tissue in plants conducts water []
 a) Xylem b) Phloem c) Sclerenchyma d) Collenchyma
59. Match the following []
 i) Chlorenchyma a) Phloem
 ii) Aerenchyma b) Leaves
 iii) Water storage c) Tubers
 iv) Store food materials d) Hyclophytes
 v) Store food materials e) Xerophytes
 a) b,d,e,c,a b) a,b,c,d,e c) e,d,c,b,a d) c,b,a,d,e
60. Which is a dead tissue in plants []
 a) parenchyma b) collecnchyma c) Sclerenchyma d) All the above
61. Match the following []
 i) Areolar tissue a) Adipose tissue
 ii) Tip of ribs b) Ligament
 iii) Bone of bone c) Packing tissue
 iv) Bone to muscle d) Cartilage
 v) Fat tissue e) Tendon
 a) c,d,b,e,a b) a,b,c,d,e c) e,d,c,b,a d) b,e,a,d,c
62. Select the wrongly matched []
 a) Connective tissue → Fibroblasts
 b) Osteocytes → Bone
 c) Collagen → Ligament and Tendon
 d) Epithebal tissue → Connective tissue
63. In fishes ,amphibians and reptiles R.B.C'S are []
 a) Nucleated b) Enuceated c) Both d) None
64. Match the following and select the right option []
 i) R.B.C's a) Destroy micro organisms
 ii) W.B.C's b) Transport O_2 and CO_2
 iii) Platelets d) Form clot
 a) b , a , c b) a , b , c c) c , b , c d) a , c , b
65. Striated and voluntary muscles are present in []
 a) Skeleton b) Blood vessels c) Alimentary canal d) Heart
66. Involuntary striated muscles are present in []
 a) Heart b) Skeleton c) Alimentary canal d) Blood vessels
67. Blood vessels have []
 a) Striated muscles b) Cardiac muscles c) Smooth muscles d) None
68. The supporting cells of nervous system are []
 a) Neurons b) Glial cells c) Germ cells d) Blood cells
69. Meiosis has an evolutionary significance because it produces []
 a) Cienetically similar daughter cells b) Four daughter cells
 c) Genetic variations d) Eggs and sperms

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70. Nissl's granules occur in []
a) Nerve cells b) Cartilage cells c) Muscle cells d) epithelial cells
71. Mammalian ear pinna is supported by []
a) Bone b) Cartilage c) Adipose d) Tendon
72. Lining of intestine of man is []
a) Muscle b) Epithelium c) Bone d) Ligament
73. Number of mitosis divisions required to produce 128 cells from a single cell is []
a) 7 b) 14 c) 16 d) 32
74. Which one is present on a chromosome ? []
a) Centrosome b) Centromere c) Nucleus d) Golgi body
75. When the paternal and maternal chromosomes mutually exchange their material in cell division, the event is called []
a) Synapsis b) Crossing is called c) Bivalent formation d) Dyad formation
76. In mitosis, nuclear envelope and nucleolus reappear during []
a) Prophase b) Metaphase c) Telophase d) Anaphase

Unit – II

Life Processes

77. A autotroph is an organism that []
a) Uses water as solvent b) Sustain itself in the absence of O_2
c) Sustain itself without eating other organisms d) Requires no input of materials
78. The autotrophic organisms which obtain energy by oxidising simple inorganic compounds such as hydrogen sulphide, ammonia etc are . []
a) Photo autotrophs b) Chemoautotrophs c) Both 'a' and 'b' d) None
79. Association between organisms of different species is called []
a) Predation b) Symbiosis c) Heterotrophs d) Autotrophs
80. The association which is beneficial to both the partners is []
a) Parasitism b) Mutualism c) Prey and predator relationship d) None
81. Association in which one organism derives benefit causing harm to other is called []
a) parasitism b) Mutualism c) Insectivorous d) None
82. Select the wrong match []
a) Nitrogen fixing bacteria - Root nodules
b) Hermit crab - Sea anemones .
c) Parasite - Host
d) Lichens - Parasitism
83. Insectivorous plants are []
a) Autotrophic b) Chemoautotrophic c) Saprophytic d) None
84. If a solution outside a cell is made more concentrated so that the cell loses water to its environment and shrinks, the external solution is said to be _____ to the cell contents. []
a) Hypotonic b) Isotonic c) Hypertonic d) In equilibrium
85. An animal cell bursts having behind the 'ghosts' when placed in a solution that is. []
a) Isotonic b) Hypotonic c) Hypertonic d) Salt solution

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86. Roots can absorb minerals from the soil, when they are in []
 a) Solid state b) Liquid state c) Ionic state d) Gaseous state
87. Which of the following is a nitrogen-fixing soil bacterium []
 a) Rhizobium b) Cyanobacteria c) Arch bacterium d) All the above
88. Nepenthes is a []
 a) Producer b) Consumer c) Decomposer d) Both a and b
89. Insectivorous plants kill insects because []
 a) Insects eat their leaves b) Insects eat their fruits
 a) They are heterotrophs d) They obtain nitrogen from killed insects
90. Natural openings in leaves which participate in transpiration are []
 a) Stomata b) Air spaces c) Root hairs d) Leaf hairs
91. Which two phenomena help to pull the water upwards by several meters in tall trees and help to supply water to the leaves in tall trees. []
 a) Root pressure and transpiration b) Adhesive and root pressure
 c) Both 'a' and 'b' d) None
92. Snails have teeth-like structures on their tongue called []
 a) Radula b) Suckers c) Antennae d) None
93. Two types of heterotrophic nutrition are []
 a) Autotrophic and saprozoic b) Autotrophic and holozoic
 c) Saprozoic and holozoic d) None of the above
94. Match the following []
 i) Pseudopodia a) Earthworm
 ii) Tentacles b) Leech
 iii) Long proboscis c) Hydra
 iv) Anticoagulant d) Amoeba
 v) Soil organic matter e) Butterflies
 a) d, c, e, b, a b) a, b, c, d, e 3) c, d, c, b, a 4) c, b, a, d, e
95. Select the wrong match []
 a) Caterpillar larva of silk worm -Mulberry leaves
 b) Male mosquitoes -Plant Juices
 c) Female mosquito -Vertebrate blood
 d) Adult butterfly -Leaves
96. The process of converting complex non-diffusible molecules to simple diffusible molecules is called as []
 a) Digestion b) Respiration c) Oxidation d) Excretion
97. Enzymes are []
 a) Very specific in their action b) Non-specific c) Act on any substrate d) All the above
98. Match the following []
 i) Carbohydrates a) Protease
 ii) Proteins b) Amylases
 iii) Fats c) Intracellular digestion
 iv) Protozoans d) Lipases
 a) b, a, d, c b) a, b, c, d c) d, c, b, a d) c, d, a, b

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116. Rumen of a cow is a part of its []
a) Intestine b) Stomach c) Caecum d) Rectum
117. Ruminant digestion is a good example for []
a) Symbiosis b) Parasitism c) Predator d) Insectivorous
118. Caprophagy is seen in []
a) Cow b) Rabbit c) Goat d) Ox
119. Pick out the wrong statement []
a) Blood glucose levels in ruminants are low when compared with other animals
b) Ruminant obtain protein from diet
c) Fatty acids are the main fuels for energy production
d) Micro – organisms in the ruminant stomach ferment glucose and produce fatty acids
120. The enzyme cellulase for the digestion of cellulose is secreted by []
a) Intestinal bacteria b) Large intestine
c) Vermiform appendix d) Small intestine
121. Read the following statement 'A' and 'B' []
A. The human small intestine is the longest portion in the alimentary canal
B. Absorption of digested food requires a very large surface area
Identify the correct choice on the two statements
a) Statement A is correct , B is wrong b) Statement A and B are both correct
c) Both the statements are wrong d) Statement B is correct , A is wrong
122. Emulsification is the function of []
a) Protease b) Esterases c) Lipases d) Bile
123. If the chyme of a person who had orally consumed only starch as food is analysed before it enters duodenum, it will show the presence of []
a) Maltose and glucose b) Dextrin and maltose
c) Starch, dextrin, glucose d) Starch, dextrin, maltose.
124. Villi are present in the []
a) Large intestine b) Small intestine c) Colon d) Stomach
125. Which of the following is both exocrine and endocrine gland. []
a) Liver b) Pancreas c) Thyroid d) Adrenal
126. The total number of canines in the permanent dental set of humans is []
a) 4 b) 6 c) 12 d) 8
127. HCl of gastric juice []
a) Kills bacteria only b) Destroys the structure of protein
c) Both d) None
128. Select the wrong statement []
a) Food that enters duodenum is chyme
b) Pyloric sphincter allows only small quantities of food into duodenum at a time
c) Liver is the largest digestive gland. d) Bile facilitates the digestion of proteins
129. Vestigial organ is []
a) Colon b) Rectum c) Appendix d) Stomach
130. Select wrongly matched []
a) Lipase → lipids → Fatty acids and glycerol.
b) Pepsin → Proteins → peptones, proteoses
c) Enterokinase → Trypsinogen → Trypsin d) Renin → Sugar → Glucose.

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131. Kidney of a mammal resembles contractile vacuole of amoeba in expelling out []
a) Salt b) Glucose c) Excess water d) Urea and uric acid
132. Ammonia is the chief nitrogenous excretory material in []
a) Mosquitoes b) Fowl c) Fish d) Man
133. Major nitrogenous waste products in ureotelic animals like rabbit and other mammal is []
a) Uric acid b) Urea c) Ammonia d) Amino acids .
134. Two examples in which nitrogenous waste are excreted from body in the form of uric acid are []
a) Reptiles and birds b) Mammals and Birds
c) Insects and mammals d) Amphibians and birds
135. Match the following and select right option . []
i) Cinchona officianlis a) Caffeine
ii) Nicotiana tobacum b) Quinine
iii) Papaver somniferum c) Reserpine
iv) Rauwolfia serpentina d) Nicotine
v) Coffea Arabica e) Morphine
a) d, b, e, c, a b) b, d, e, c, a c) a, c, e, b, d d) a, c, e, d, b
136. The latex of hevea braziliensis gives []
a) Rubber b) Alkaloids c) Oil d) Dyes
137. In flatworms like planaria the excretory organs are []
a) Flame cells b) Nephridia c) Kidney d) Amphibian tubules
138. Select the wrong statement []
a) In arthropods, malpighian tubules participate in excretion
b) In protozoa, coelenterate and echinodermata dissolved waste are eliminated by diffusion through body surface
c) In all vertebrates, kidneys are the excretory organs .
d) The CO_2 released in photosynthesis is used as raw material in respiration
139. Filtration of blood occurs in []
a) Bowman's capsule b) Loop of Henle c) Neck of nephron d) Renal papillae
140. Bowman's capsule occurs in []
a) Pancreas b) Kidneys c) Pituitary body d) Adrenal gland
141. Blood vessels leading into a glomerulus is called []
a) Afferent arteriole b) Efferent arteriole c) Renal artery d) Renal vein
142. In mammals, the urinary bladder opens into []
a) Uterus b) Urethra c) Vestibule d) Ureter
143. In which of the following the gut expels out excretory waste along with faeces []
a) Human being b) Dog c) Arthropods d) Earthworm
144. Malpighian body is constituted by []
a) Glomerulus only b) Glomerulus and Bowman's capsule
c) Glomerulus and efferent vessel d) Glomerulus and afferent vessel
145. The yellow colour of urine is due to []
a) Uric acid b) Urea c) Urochrome d) Bilirubin
146. Functional unit of kidney is []
a) Nephron b) Nephritis c) Neuron d) Loop of henle

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147. The amount of blood filtrate per minute by kidney is []
a) 500 ml b) 600 ml c) 120 ml d) 25 ml
148. In children urination is a []
a) Voluntary action b) Involuntary action c) Both d) None
149. Blood dialysis is also called artificial []
a) Lung b) Heat c) Kidney d) Liver
150. In mammals urinary bladder opens into []
a) Uterus b) Urethra c) Vestibule d) Ureter

Unit – 4

World of energy

151. The potential ability to perform work by a system is called []
a) Work b) Strength c) Energy d) Heat
152. Radiant energy is used for []
a) Photosynthesis b) Visual activity
c) For communication in some animals d) All the above
153. The energy stored in the glucose molecule is released during oxidation and is used for the synthesis of []
a) ATP molecule b) ADP c) AMP d) None
154. During shivering ,heat is generated due to []
a) More blood flow b) Rapid heart beat
c) Contraction of muscles d) Digestion of food
155. In biological system electrical energy is generated due to the differences in the concentration of ions across the membrane and used for []
a) Neuronal activities b) Excretion c) Metabolism d) None
156. According to the laws of thermodynamics []
a) Energy can neither be created nor destroyed
b) Energy can be transformed from one form to other
c) Energy transformations are not 100% efficient d) All the above
157. Energy yield from one gram carbohydrates and one gram of fat is []
a) 4.k.cal and 9.4 k. Cal b) 9.4 k. Cal and 4.k cal
c) 5.4 k .cal and 6 k cal d) 6.k cal and 5.4 k cal
158. The word used for synthesis of chemical substance is []
a) Anabolism b) Catabolism c) Metabolism d) None
159. The word used for degradation of a chemical substance is []
a) Catabolism b) Anabolism c) Metabolism d) None
160. Movement of substances for higher concentration to lower concentration is called []
a) Active transport b) Passive transport c) Both ‘a’ and ‘b’ d) None
161. Movement of substances against the concentration gradient is called []
a) Active transport b) Passive transport c) Blood transport d) All
162. ATP energy is used in []
a) Active transport b) Passive transport c) Both ‘a’ and ‘b’ d) None
163. In biological systems electrical potentials are generated due to difference in concentration []
a) Sodium and potassium ions across the membrane
b) Sodium and phosphate ions across the membrane
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- c) Calcium and phosphate ions across the membrane
d) Magnesium and calcium ions across the membrane
164. The rate of metabolism observed when an organism is resting and relaxed at normal temperature is called as []
a) Catabolic rate b) Anabolic rate c) Basal metabolic rate d) Heart rate
165. BMR can be determined by an instrument called []
a) Spirometer b) Thermometer c) Barometer d) Calorimeter
166. Per unit weight of the body BMR is high in []
a) Large animals b) Small animals c) Moderate animals d) None
167. The primary source of energy in ecosystem is []
a) Sun light b) Heat c) Cold d) Electricity
168. The primary producers in an ecosystem are []
a) Plants b) Animals c) Decomposers d) None
169. The rate at which the organic matter is produced by the plants in an ecosystem using solar energy is called []
a) Primary productivity b) Secondary productivity
c) Net primary productivity d) Net secondary productivity
170. The rate of which the organic matter is stored in the plant parts is called []
a) Primary productivity b) Secondary productivity
c) Net primary productivity d) Net secondary productivity .
171. The amount of energy present at each level in the food chain is called []
a) Trophic level b) Food chain c) Food web d) None
172. The total amount of dry mass produced all the organisms in an ecosystem in given time period []
a) Bio fuel b) Biomass c) Secondary productivity d) None
173. Wood , petroleum , Natural gas are called as []
a) Bio fuels b) Biomass c) Both 'a' and 'b' d) None
174. The forest for the people by the people []
a) Social forestry b) Agro forestry c) Industrial forest d) All the above
175. In marshy areas trees grown for energy plantation are []
a) Avicinea b) Lecucina c) Eucalyptus d) Casuarina
176. Example of "petro –crops"
a) Calotropis procera b) Nilagiri c) Casuarina d) Avicinea
177. The blend of alcohol and gasoline is called []
a) Gasohol b) Sugar c) protein d) Petroleum
178. The large brown sea weeds are known as []
a) Gasohol b) Bio fuels c) Kelps d) None
179. Molasses serve as a basic raw material for []
a) Sugar Formation b) Salt formation c) Alcohol fermentation d) None
180. Synthesis of new molecules in a cell require the following energy []
a) Mechanical b) Electrical c) ATP d) Heat

KEYSHEET

Unit-I

1) C	2) A	3) D	4) C	5) C
6) B	7) C	8) C	9) B	10) C
11) A	12) B	13) C	14) D	15) B
16) D	17) C	18) A	19) B	20) A
21) C	22) D	23) A	24) C	25) A
26) D	27) D	28) A	29) B	30) D
31) A	32) A	33) B	34) B	35) A
36) D	37) D	38) B	39) B	40) A
41) C	42) B	43) A	44) B	45) A
46) B	47) B	48) C	49) A	50) D
51) C	52) B	53) D	54) A	55) B
56) A	57) C	58) A	59) A	60) C
61) A	62) D	63) A	64) A	65) A
66) A	67) C	68) B	69) C	70) A
71) B	72) B	73) A	74) B	75) C
76) C				

Unit-II

77) C	78) B	79) B	80) B	81) A
82) D	83) A	84) C	85) A	86) A
87) A	88) C	89) B	90) C	91) A
92) D	93) D	94) A	95) D	96) A
97) A	98) A	99) B	100) A	101) D
102) B	103) D	104) D	105) B	106) D
107) A	108) A	109) A	110) C	111) C
112) B	113) B	114) A	115) A	116) B
117) A	118) B	119) B	120) A	121) B
122) D	123) D	124) B	125) B	126) A
127) C	128) D	129) C	130) D	131) C
132) C	133) B	134) A	135) B	136) A
137) A	138) D	139) A	140) B	141) A
142) B	143) C	144) B	145) D	146) A
147) C	148) B	149) C	150) B	

Unit-IV

151) C	152) D	153) A	154) C	155) A
156) D	157) A	158) A	159) A	160) B
161) A	162) A	163) A	164) C	165) A
166) B	167) A	168) A	169) A	170) C
171) A	172) B	173) A	174) A	175) A
176) A	177) A	178) C	179) C	180) c