

EVERWIN MATRIC. HR. SEC. SCHOOL

STD: XI Material of the month – June

Bio-Botany

Unit-1 Diversity Of Living World

1. The self regulation and tendency to maintain a steady state with in an external environment.
a) Homeostasis b) Homeothermy c) Homeomorphic
d) Homeokinesis
2. Match the correct answer:
i) Cuboid symmetry – a) Influenza virus
ii) Helical symmetry – b) Vaccina virus
iii) Complex symmetry - c) Herpes virus
Ans: i) c ii) a iii) b
3. Riboviruses possess the nuclear material as _____.
a) DNA b) RNA c) Both d) None of these
4. Identify the virus with ds DNA.
a) Retrovirus b) Toga virus c) Adeno virus d) Hepadna virus
5. Which one of the following statement about viriod is correct.
a) Enzymes are present b) They contain DNA and RNA
c) Circular molecule with ssRNA without capsid
d) Circular molecule with dsDNA with capsid
6. Identify the incorrect match:
a) TMV - Plant disease
b) Polio - Human disease
c) Rabies - Animal disease
d) Mumps - Animal disease
7. Identify the correct mismatch:
a) Tobacco Juice - W.M.David
b) Small virus - Dimitry Ivanowsky
c) d'Herelt - Bacteriophage
d) Robert gallo - HIV
8. Virusoids discovered by _____.
a) J.W.Randle b) Ernst Haeckel c) Copeland d) Carl
9. Identify the false statement:
a) Integrated DNA phage is prophage
b) Protein coat outside cell is ghost
c) SARS is Severe Acute Respiratory Syndrome

d) Virus affecting the blue green alorgi Mycophages

10. Find the odd one out:

The criteria of fungi is as follows:

- a) cell type is Eukaryotic b) They are Non motile
c) Cell wall is absent d) They follow saprophytic nutrition

11. Fredrick Griffth discovered

- a) Transduction b) Transformation c) Conjugation
d) None of these

12. Reason: Ribosome with 10,000 to 15,000 cell is called Polysome.

Assertion: The ribosomes are held together by t-RNA to form polyribosome.

- a) Assertion and Reason is correct
b) Assertion is wrong and Reason is correct
c) Both are wrong (incorrect)
d) Assertion is correct and Reason is wrong

13. Identify the incorrect statement about gram negative bacteria:

- a) Elasticity is due to dipoprotein – polysaccharide
b) Flagella contains 4 basal body rings
c) They are double layer with 0.0007 μ m thick
d) Outer & periplasmic membrane is present

14. The curing of tea is done by

- a) Clostridium b) E.coli c) Myococcus Candisan
d) Acetobacter aceti

15. Reason: Bacteria use sunlight as their source to synthesise food is Autotropic Bacteria.

Assertion:H₂, H₂S, Thiosulphate act as Hydrogen donor

- a) Reason & Assertion is incorrect
b) Reason & Assertion is correct
c) Reason is correct & Assertion is incorrect
d) Reason is incorrect & Assertion is correct

16. Match:

- | Classification | Place |
|------------------|-----------|
| i) Conrticolous | a) rocks |
| ii) Saxicolous | b) ground |
| iii) Lignicolous | c) Bark |
| iv) Terricolous | d) Wood |
- i) c ii) a iii) d iv) b

31. The extrachromosomal DNA is called as
 a) plasmid DNA b) dsDNA c) SSDNA d) None of these
32. pili-like hair appendages on the surface of cell wall is used during
 a) conjugation b) transformation c) transduction
 d) All of these
33. The bacterial cell wall is made up of
 a) N-acetyl glucosamine & N-acetyl muramic acid
 b) N-acetyl muramic acid only
 c) N-acetyl glucosamine only d) None of these
34. Identify the incorrect statement about Actinomycetes.
 a) It is called as Roy fungi
 b) thin filamentous branched structure called Hyphae
 c) cell wall is made up of pectin
 d) Mycelium organized into plactenchyma
35. The fungi that produce toxins are called _____.
 a) Toad stool b) Aflaxatoxin c) Dermatophyte
 d) Patulin
36. Ralvonia synthesis – a microbial plastic
 a) β hydroxy butyrate b) α hydroxy butyrate
 c) Both d) None of these
37. Identify the incorrect statement about chemoautotrophic bacteria.
 a) They do not have photosynthetic pigment
 b) Chemolithotrophs oxidize inorganic compound to release sulphur
 c) Methanococcus is an example of chemocorganotrophs
 d) Lactobacillus is an acetic acid bacteria
38. Phage mediated DNA transfer is called _____.
 a) Transformation b) Transduction c) Conjugation
 d) None of these
39. Match:
 i) Micheli - a) allergy in Human
 ii) Fontana - b) Parasexual cycle
 iii) Blackley - c) Culture Experiment
 iv) Paper - d) Fungi harmful
 Ans: i) c ii) d iii) a iv) b
40. The five kingdom of classification is proposed by
 a) Carl Zinnaeus b) Cope land c) R.H.Whittaker
 d) Ernst Haeckel

Bio-Zoology

1. The term taxonomy was coined by _____.
 a) Stricklandt b) Augustin Candole
 c) Walter Rosen d) Aristotle
2. Reason: Cladistics is the study of evolutionary and genetic relationship among organisms which gives phylogenetic classification.
 Assertion: Ernst Haeckel introduced the method of representing evolutionary relationship with the help of tree diagram cladogram.
 a) Reason and Assertion correct
 b) Reason correct, Assertion wrong
 c) Reason wrong and Assertion correct
 d) Reason and Assertion wrong
3. Reason: Aristotle was the first to classify all animals and he is the father of Taxonomy.
 Assertion: Aristotle is the father of classical taxonomy and Carl Linnaeus is the father of Modern Taxonomy.
 a) Reason and Assertion correct
 b) Reason is correct, Assertion wrong
 c) Reason wrong, Assertion correct
 d) Reason and Assertion wrong
4. Find out the mismatch:
 a) Felis domestica - domestic cat
 b) Felis margarita - tiger
 c) Felis silvestris - Wild cat
 d) Ailurus fulgens - Red panda
5. Find out the mismatch:
 a) Male horse and female donkey – Pony
 b) Male donkey and female horse – Mule
 c) Male Lion and Female Tiger - Liger
 d) Male Tiger and Female Lion - Tigon
6. Which is referred as Probiotic organism?
 a) Vibrio cholere b) S.typhis c) Lactobacillus
 d) Treponema palladium
7. Find out the mismatch:
 a) Three Domain - Carl Woese
 b) Five Kingdom - Cavalier Smith
 c) Binomial Nomenclature - Carl Linnaeus
 d) Classical Taxonomy - Aristotle
8. Find out the mismatch:
 a) ABIS – Automatic Bee Identification

- b) ALIS – Automated Leaf hopper Identification System
 c) SPIDA – Species Identified Automatically
 d) DAISY – DNA Automated Identification System
9. Which is not a Molecular taxonomic tool?
 a) DNA barcoding b) Hybridization c) DNA finger printing
 d) INOTAXA
10. Which organism is not biradially symmetrical?
 a) Sponges b) Starfish c) Planaria d) Pleurobrachia
11. Which is called as Adamsia?
 a) Sea Anemone b) Pennatula c) Physalia d) Round worm
12. Pallium is found in the phylum _____.
 a) Echinodermata b) Arthropoda c) Cnidaria d) Mollusca
13. Which is called as Acorn worms?
 a) Roundworm b) Earthworm c) Flatworm d) Balanoglossus
14. Which is the mismatch:
 a) Taenia Solium - Tapeworm
 b) Wuchereria bancrofti - filarial worm
 c) Ascaris lumbricoides - flat worm
 d) Enterobius vermicularis- Pin worm
15. Bioluminescence is found in _____.
 a) Pleurobrachia b) Eupagarus c) Asterias d) Cucumaria
16. Which organism does not have a heart?
 a) Starfish b) Pila c) Squid d) Acorn worm
17. Which is not having a closed circulatory system?
 a) Aves b) Annelida c) Cockroach d) Amphibia
18. Which is the correct match:
 a) Pseudocoelomate - Annelida
 b) Eucoelomate - Tapeworm
 c) Acoelomate - Planaria
 d) Shizo coelomate - Chordates
19. Reason: True coelom is a fluid-filled cavity that develops within the mesoderm.
 Assertion: Eucoelomates are classified into Enterocoelomate and Schizocodomate
 a) Reason and Assertion correct
 b) Reason correct and Assertion correct
 c) Reason wrong and Assertion correct
 d) Reason and Assertion wrong
20. Which is the wrong match:
 a) Parazoa - Sponges
 b) Bilateria - Earthworm
 c) Radiata - Mollusca
 d) Eumetazoa- Hydra
21. Ctenidia is found in _____.
 a) Chordates b) Pisces c) Mollusca d) Echinodermata
22. Which organism does not have jaws?
 a) Scoliodon b) Petromyzon c) Trygon d) Pristis
23. Which is not a Prostomia?
 a) Schizocoelomata b) Acoelomata c) Enterocoelomata
 d) Pseudo coelomata
24. Statocyst is found in _____ phylum.
 a) Annelida b) Porifera c) Ctenophora d) Arthropoda
25. Find out the wrong match:
 a) Asterias - Starfish
 b) Echinus - Sea Urchin
 c) Cucumaria- Sea Cucumber
 d) Antedon - Brittle Star
26. Match the following:
 a) Neo Taxonomical tool - i) DNA finger printing
 b) Ethology of taxonomical tool - ii) INOTAXA
 c) e-Taxonomic resources - iii) Behaviour
 d) Molecular taxonomical tool - iv) Electron Microscopy
- | | | | | | | | |
|------|----|----|----|------|-----|----|---|
| a) A | B | C | D | b) A | B | C | D |
| iii | i | iv | ii | ii | iii | iv | i |
| c) A | B | C | D | d) A | B | C | D |
| iii | iv | ii | I | iv | iii | ii | i |