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STD: XI BIO-BOTANY

LESSION -1 LIVING WORLD

2 OR 3 MARKS

2. What are the types of reproduction in living organism -2
3. What is Homeostasis? -3
4. Different between Anabolism and catabolism -3
5. What is cyclosis? -4
6. What are the living characters of viruses? -5
7. What are the non living characters of viruses? 5
8. Draw a diagram and label the parts of TMV. -5
9. Draw a diagram and label the parts of T4 bacteria phage. -5
10. Define virion. -8
11. Define viroid -8
12. Define virusoids. -8
13. Define prions -9
14. Any three viral disease in plants/ Animals - 9
17. Why need classification? -10
18. Define chromista.
19. Draw a diagram and label the parts of (ultra structure)Bacteria a cell -15
20. What is plasmid? -16
21. What is capnophilic baceteria? 19
22. What is retting?-24
23. What is archaebacteria? -25
24. What is Heterocycts? 27
25. Write about four class of fungi? -31
26. Define powdery mildews? 33
27. Define ascocarp? 33
28. Draw diagram perithecium and apothecium. 33
29. Define club fungi -34
30. What are the conidia produce special structure? 34
32. Any three fungal disease of plants -36
33. Define mycorrhizae. 37
34. What is Lichens 38
35. write the difference between Homoiomerous and Heteromerous -38
36. Write about habitat and classification of lichen.-38

Five marks

1. Explain T4 Bacteriophage? -7
2. Explain TMV -6
3. Explain lytic cycle -7

4. Explain lysogenic cycle – 8
5.Explain five kingdom system of classification merits and demerits? -9-11
6. Different between gram positive and gram negative in bacteria – 18
7. Explain bacterial conjugation – 20-21
What are the steps involved in bacterial staining method.
8. Explain bacterial Transformation or Griffith experiment -21
9. Economic importance of bacteria . -23
10. Salient features of Cynobacteria - 26
11. Explain methods of reproduction of Fungi -30
12. Explain Lichen classification and economic importance -38
13. Economic importance of Fungi -35

LESSION -2 PLANT KINGDOM

2 OR 3 MARKS

1. Define photosynthesis? 42
2. What is alternation of generation – 44
3. Define Haplontic life cycle -44
4. Define Diplontic life cycle -44
5. What is Haplodiplontic life cycle – 44
6. Who was the some Indian algologists -45
7. What are the 11 class of algae 48
8. Explain various types of chloroplast found in algae-48
9. Define Agar Agar -50
10. Define Gemmae – 51
11. What are the three class of Bryophytes – 52
12. What are five subdivision of pteridophytes – 54
13. Define Protostele – 55
14. Define Sipnostele – 55
15. Define Solenostele – 55
16. Draw the diagram of various types of stele – 56
17. Define monoxylic and pycnoxylic -56
18. Some of the fossil rich sites of India -58-59
24. Bryophytes is amphibians why? 50 -51
25. Different between anatomical feature of dicot and monocot plants.-60
26. Define prothallus -61
27. What is pyrenodis – 48
28. What is Akinetes - 47
29. How are the gymnosperms classification -57
30. What is Amber? Which group of member produce in Amber 56.
31. What are the corolloid root?
32. Deferent between microsporophyll and megasporophyll -57

Five marks

1. Economic importance of Algae. – 50
2. What are general character of Algae – 45
3. Economic importance of Bryophytes – 52
4. General character of pteridophytes – 53
5. Economic importance of pteridophytes -54
6. Explain types of stele – 55
7. General character of Gymnosperm – 56
8. Different between Gymnosperm and Angiosperm -57
9. Economic importance of Gymnosperm – 58
10. What are the sailent features of Angiosperm – 59

LESSION -3 VEGETATIVE MORPHOLOGY

2 OR 3 MARKS

1. What is Geophytes give an example? 64
2. What is Liana example -64
3. What is Psammophytes give an example -64
4. Different between monocarphic and polycarphic -65
5. What is root caps? 66
6. Draw the diagram and label the parts of Regions of root cap -66
7. What is breathing root give an example -68
8. What Butteress root example -69
9. Define Epiphytes root or Velamen root -69
10. What is assimilation roots -70
11. What is Sucking root or Haustorial roots – 70
12. What is phylloclade give an example – 73
13. What is Cladode? Give an example -74
14. Define Pulvinus? -76
15. Describe pitcher plant -83
16. What is dorsal and ventral Leaf ? ex
17. What Isobilateral leaf example
18. What are the secondary function of leaf -76

FIVE MARKS

1. Explain taproot modification
2. Explain adventitious root modification
3. Explain sub aerial stem modification

LESSION -4 REPRODUCTIVE MORPHOLOGY

2 OR 3 MARKS

1. Different between racemose and cymose -89
2. What is Ament? -90
3. Describe spadix inflorescence -90
4. Describe Umbel with in example – 91
5. Define Hermaphroditic, monoecious, dioecius, polygamous.
6. Describe papilionaceous or vexillum -100
7. What is epipelaous stem give an example – 104
8. Different between Apocarpous and syncarpous – 107
9. Gynandrophore or Androgynophore – 109
10. floral formula in name is 113
11. What is pomology? -114
12. What is Balausta fruit example -115
13. What is aggregate fruit give an example – 117
14. What is pollinium?

FIVE MARKS

1. Explain different types of placentation – 111
2. Different between aggregate fruit and multiple fruit -117 118
3. Explain different types of fleshy fruit with sutable example – 114,115
4. Explain special type of inflorescence.

LESSION – 5 TAXONOMY AND SYSTEMATIC BOTANY

2 OR 3 MARKS

1. Different between Taxonomy and systematic -125
2. What are the systematic hierarchy -125
3. What is binomial name -129
4. What is Author citation – 129
5. Define Herbarium – 133
6. Need for classification – 137
7. What are aims of chemotaxonomy – 144
8. What are aims of biosystematic – 144
9. What is karyotaxonomy- 144
10. What is Serotaxonomy – 144
11. Define DNA Barcoading – 146
12. What is Cladistic -147
13. Systematic position of Fabaceae – 148
14. Systematic position of Solanaceae – 154
15. Systematic position of Liliaceae -159
16. What is Atropine? 157
17. What is Stramonium -157

NOTE : SYSTEMATIC POSITION OF ALL THE FAMILY YOU STUDY(PURE SCIENCE)

FIVE MARKS

1. Write about ICN principle – 127
2. Explain different nomenclatural types – 129
3. What are role of botanical garden - 133
4. What the uses of herbarium – 135
5. Outline for Benthum and Hookers classification – 139
8. Botanical description and Economic important of all the family.

LESSION - 6 THE UNIT OF LIFE

2 OR 3 MARKS

1. What are the two kinds of electron microscope – 172
2. What is Glyoxcalyx -182
3. Define prokaryotes -176
4. Define mesokaryotes – 177
5. Define eukaryotes – 177
6. Draw and label the parts of cell membrane – 182
7. What is phagocytosis and pinocytosis -184
8. What is cytoplasmic stremming -184
9. Different between chloroplast and leucoplast -187
10. What is Heterochromatin – 192
11. Describe microbodies – 190
14. types of chromosome based on centromere – 193
15. Draw and label the structure of mitochondria – 186
16. Draw and label the parts of chloroplast – 188

FIVEMARKS

1. Explain phase contrast microscope -188
2. Physical properties of protoplasm -175
3. Different between prokaryotic and eukaryotic -177
4. Draw the diagram and label the parts of Plant Cell – 179
5. Different between plant cell and animal cell -180
6. Explain cell principle or **cell Doctrine** – 174
9. Explain structure of chromosome – 192
10. Explain special type of chromosome .

LESSION -7 THE UNIT OF LIFE

2 OR 3 MARKS

1. What is the role of Nucleus -202
2. What is cytokinesis – 203
4. What is G0 phase – 204

5. What is Karyokinesis -205
6. What is closed mitosis -206
7. Significance of meiosis -212
8. What is mitogen – 213
9. What is Endomitosis – 213
10. What is Anastral -213
11. What is Amphiastral -213

FIVE MARKS

1.Explain cell cycle -203
2. Explain Mitosis – 206
3. Explain meiosis Prophase I – 210
4. Significance of mitosis
5. Different between mitosis and meiosis

LESSION – 8 Biomolecules

2 OR 3 MARKS

1. Write about properties of water – 219
2. What is primary and secondary metabolites -220
3. What is monosaccharides with an example – 221
4. What is disaccharides with an example – 222
5. What is polysaccharides with an example and types -222
6. Define Amylose and Amylopectin -222
7. Define Hydrogen bond – 231
8. Define Ionic bond -231
9. Define disulfide bond – 232
10. Define Hydrophobic bond -231
11. What is Nucleoside and Nucleotide -238
12. Draw a structure of DNA – 242
13. Draw a diagram of tRNA – 243
14. Draw a basic component of DNA and RNA – 240
15. Write about properties of Enzyme – 232

FIVE Marks

1. Explain types of polysaccharides
2. Explain structure of protein - 230
3. Explain factors affecting of Enzyme -234
4. Write about classification of Enzyme -237
5. Explain structure of DNA – 240
6. Explain DNA features -241
7. Write about RNA types. -243