**KLE SOCIETY’s**

**P. C. JABIN SCIENCE COLLEGE, AUTONOMOUS, HUBLI**

**DEPARTMENT OF BOTANY**

**B.Sc I Semester NEP**

**2 Marks**

1. Coenocytic
2. Mycota
3. Plectenchyma
4. Rhizomorph
5. Ascus
6. Sporangiophore
7. Conidiophore
8. Saprophytes
9. Facultative saprophytes
10. Parasites
11. Facultative parasite
12. Obligate saprophyte
13. Obligate parasite
14. Symbiosis
15. Heterotropic
16. Endoparasite
17. Ectoparasite
18. Aprosoria
19. Mycorihhiza
20. Predacious fungi
21. Exogenous spres
22. Zoospores
23. Aeciospores
24. Monocaryotick hypae
25. Dicaryotic hypae
26. Basicium
27. Apocthecium
28. Clestothecium

**Silme moulds**

1. Capillitium
2. Plasmodium;
3. Spereols
4. Swarm cells
5. Mixamoeba
6. Slime molds
7. Sporphore
8. Pseudoplasmodium

**Mycoplasma & Mycorrhiza**

1. Mycorrhiza
2. Ectendomycorrhiza
3. Mycoplasma.

**Penicillium**

1. Metulae
2. Green fungus
3. Pencillium
4. Sterigmata
5. Corenium
6. Sclerotium
7. Ascocorp
8. Rami
9. Oidiospores

**Albugo**

1. Disjencture
2. Pustules
3. Conidia
4. White rust
5. Coenocentrium
6. Conidiophore

**Puccinia**

1. Rust
2. Autoceous
3. Heteroceous
4. Uredo sori
5. Germ pore
6. Teleospores
7. Teleium
8. Picnidiospores
9. Aeceospores
10. Pellicle
11. Barbery plant
12. Disjuncture
13. Intercallary cells

**Cercospora**

1. Tikka diseases
2. Leaf spot diseases
3. Imperfect fungi
4. Jeniculate conidia

**Rhiophus**

1. Bread mould
2. Progametangia
3. Zygospore
4. Parthenospore
5. Endospore
6. Promycelium

**Lichen**

1. Crustose
2. Fructose
3. Foliose
4. Apothecium
5. Symbiosis

**Microbiology**

1. Cleviceps perpuriea
2. Nitrosomonosa
3. Nitrobacter
4. Viroids
5. PSTV
6. Prion
7. Kuru
8. CJD
9. Virous
10. Virology
11. Papilomeres
12. Capsomers
13. Capsid
14. Bacteriophage
15. T-4 Bacteriophage
16. Spikes
17. Lytic cycle
18. Lysogenic cycle
19. Ghost
20. Prophage
21. Parasitic bacteria
22. Saprophytic bacteria
23. Symbiotic bacteria
24. Photosynthetic bacteria/phototrops
25. Green sulphur bacteria
26. Purple sulphur bacteria
27. Purple non sulphur bacterial
28. Autotrophic bacteria
29. Heterotropic bacterial
30. Chemosynthetic bacteria
31. Capsule/Mucilage layer/slime layer
32. Pili
33. Nucleoid
34. Mesosome
35. Plasmid
36. Binary fission
37. Budding
38. Endospore
39. Conjugation
40. Transduction
41. Transformation
42. Archebacteria
43. Eubacteria
44. Cyanobacteria
45. Gleotrachia
46. Oscillotoria

**Units-V (Plant Pathology)**

1. Pathology
2. Disease
3. Etiology
4. Pathogensis
5. Pathogen
6. Systemic disease
7. Soil born disease
8. Air born disease
9. Seed born disease
10. Endemic disease
11. Epidemic disease/ Epiphytic disease
12. Citrus canker
13. Ergotin
14. Borduax mixture
15. Crown Gall
16. Sclerotia
17. *Agrobacerium tumificien*
18. *Xanthomonas citrii*
19. *Claviceps purpurae*
20. *Tobacco mosaic virus (TMV)*
21. Sandal spike
22. Parasitism
23. Antigonastic plants
24. Amensalism
25. Competition

**5 Marks**

**Fungi**

1. Describe the classification of fungi
2. Describe general thallus organization in fungi
3. Describe asexual reproduction in fungi
4. Give an account various types of parasites
5. Give an account asexual spores produced by fungi
6. What is ment by facultative saprophytes
7. Write the comparative account between algae and fungi
8. Give an account on asexual reproduction in fungi
9. Write a note on vegetative reproduction in fungi

**Slime moulds**

1. Why are slime moulds not classified with true fungi
2. Describe nutrition in slime moulds
3. Write breife account on slime moulds
4. Whate are myomycetes. Give characteristic features
5. Describe structure & reproduction in stemonites\

**Albugo**

1. Describe asexual reproduction in albugo
2. Describe sexual reproduction in albugo
3. Explina vegetative structure of ablugo with near labeled diagram\

**Rhizophu**

1. Describe asexual reproduction in rhizophus
2. Describe vegetative structure of rhizophus
3. Describe Sexual reproduction in rhizophus.

**Pencillium**

1. Describe vegetative structure of pencillium
2. Describe asexual reproduction inpencillum
3. Describe sexual reproduction in pencillum

**Puccinia**

1. Explain symptoms observed on wheat
2. Explain the symptoms observed on barbery
3. Describe briefly various type spore found in puccina
4. Explain the type of spores formation on wheat by puccinina
5. Write note on basidiospore in Puccinia

**Cercospora**

1. Describe the reproduction in Cercospora
2. Explain vegetative structure in Cercospora

**Lichens**

1. Discribe V.S.of Lichen thallus
2. Describe V.S. of opothecium of lichen
3. Give an account on Economic importance of lichen

**Microbiology**

1. Briefly explain history of microbiology
2. Breifly explain scope of microbiology
3. Explain the classification of virus based host and nucleic acids
4. With neat labeled diagram explain structure of T-4Bacteriaophage
5. Explain with neat labeled digrgam of lytic cycle
6. With neat labeled diagram explain the ulterstrutre of bacterial cell
7. Explain the asexual reproduction in bacteria
8. Explain simple conjugation in bacteria
9. Explain transformation in bacterial
10. Write a note on archebecteria
11. Write a characterstic of cyanobacteria
12. Explain lysogenic cycle with diagram
13. Explain living and nonliving characters of virus
14. Explain the Hfr conjugation in bacteria
15. Explain transduction in bacteria

**Plant pathology**

1. Write an account on leaf curl of papaya
2. Write an account on bacterial disease in plant
3. Write note on sandle spide disease
4. Write note black smut disease
5. Write note on ergot cereals and grasses
6. Write note on late blight of potato
7. Write note on symptoms and controle measures of loose smut of jawar.
8. Write in detail about the biological control of fungal disease

**10 Marks Questions**

**Fungi**

1. Give the classification and general charasterstic of fungi /kingdom mycota
2. Give an account on hypal modification in fungi with example.
3. Write a note on reproduction in fungi.
4. Explian in detail life cycle of albugo
5. Explian in detail life cycle of rhizophus
6. Explian in detail life cycle of Pencillum
7. Explian in detail life cycle of Puccinia
8. Explian in detail life cycle of Cercospora
9. Wrie a brief note on Slime moulds Mycoplasma & Mycorrhiza

**Microbioolgy**

1. With neat labeled diagram explain simple and Hfr conjugation in bacteria
2. Explain lytic and lysogenic cycle in T-4 bacteriophage
3. Explian the classification of bacteria based on the nutrition
4. Explain transformation and transduction in bacteria

**Plant Pathology**

1. Write the methods of control of plant disease by physical methods
2. Write the methods of control of plant disease by Chemical methods
3. Write the methods of control of plant disease by Biological methods
4. Write a note on any three bacterial disease of plant
5. Write in detail an account on late blight of potato.
6. Write a note on Pathogen, Symptoms and control measures of

a) Crown gall disease b) Citrus canker c) Citrus canker disease

1. Write a note on any two viral diseases of plant
2. Write a note on Pathogen, Symptoms and control measures of

a) Sandal spike disease b) leaf curl of papaya

1. Write a note on Pathogen, Symptoms and control measures of

a) loose smut of Jawar or grain smut disease b) black smut of disease