**Model Question Paper**

**B. Sc. I**

**Botany / Semester – I Paper – I**

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**Que. 1 Rewrite the following sentence by choosing correct alternative from the following. (14)**

1. The branch of microbiology which deals the study of protozoa is known as …
   1. Protozoology b. zoology c. virology d. phycology
2. .................... was the first person to report descriptions of microorganisms in detail.
   1. Robert Koch b. Kircher c. Louis Pasteur d. Antony van Leeuwenhoek
3. …………… crystallised and isolated viruses for the first time.
   1. F. C. Bawden b. W. M. Stanely c. K. M. Smith d. D. Ivanowski
4. An infectious part of a virus is ………..
   1. Tail b. Capsomers c. Nucleic acid d. Protein coat
5. Rod shaped bacteria are called ……………… .
   1. Streptococci b. staphylobacilli c. bacilli d. cocci
6. The ability of bacteria to change their mrophological form frequently is termed as …… .
   1. pleomorphism b. lysogeny c. alteromorphism d. putrefaction
7. *Mycoplasma* founds in ………………….
   1. Plants b. Animals C. Humans d. plants, animals, Humans
8. The study of algae is called as………………..
   1. ecology b. phycology C. mycology d. cytology
9. Fucoxanthin pigments are found in ………………..
   1. Green algae b. blue green algae C. brown algae d. red algae
10. ………………….. is the site of Nitrogen fixation in *Nostoc*.
    1. Heterocyst b. Akinete C. Aplanospore d. Zoospore
11. *Nostoc* is an example of ………………………
    1. chlorophyta b. phaeophyta C. cyanophyta d. crysophyta
12. Scalariform conjugation is found in ………………………
    1. *Nostoc* b*. Spirogyra* C*. Sargassum* d*. Volvox*
13. The receptacles are found in ………………………
    1. *Nostoc b. Spirogyra C. Sargassum d. Volvox*
14. Agar-Agarisprepared from ………………………
    1. *Gelidium b. Ulva C. Sargassum d. Oedogonium*

**Que. 2 Answer any seven of the following. (14)**

1. Mention different groups of microorganisms
2. What do you mean by Biotechnology
3. What is mean by vector
4. Give a brief account of bacterial viruses
5. Nitrogen fixing bacteria
6. Draw and label *Sargassum* thallus
7. Unicellular thallus in algae
8. Write down the classification of *Nostoc*
9. Mention any two characters of division chlorophyta

**Q. 3. A. Attempt any two of the following (10)**

1. Write short not on Phytoplasmas
2. Describe the structure of bacterium cell with suitable digram.
3. Write a note on akinete

B. Descibe different forms of Coccus bacteria **(4)**

**Que. 4 Attempt any two of the following (14)**

1. Write on types of viruses based on nature of hosts
2. Write in brief about useful microorganisms
3. Describe the thallus structure of *Spirogyra*

**Que. 5 Attempt any two of the following (14)**

1. Give the general characters of *Mycoplasma*
2. State the economic importance of viruses
3. Describe role of algae in agriculture

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