B.Sc. Semester I (Honours) Examination, 2018-19
MICROBIOLOGY

Course ID : 12211   **Course Code : SHMCB-101C-1**

Course Title : Introduction to Microbiology and Microbial Diversity

Time: 1 Hour 15 Minutes   **Full Marks: 25**

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words
as far as practicable.

1. Answer *any five* from the following: 1×5=5

   (a) Mention the contribution of Alexander Fleming in Microbiology.

   (b) What is numerical aperture?

   (c) What is heterocyst?

   (d) What do you mean by fungi imperfecti?

   (e) What is dolipore septum?

   (f) Define viroids.

   (g) Write down the limitation of Koch's postulate.

   (h) What is 'eye spot'?

2. Answer *any two* from the following: 5×2=10

   (a) Briefly discuss about the economic importance of fungi in medical science and food industry.

                                                                           3+2=5

   (b) Write a short note on Pigments of algae.   5

   (c) Mention the salient features of prion. Name two human diseases caused by prion.   3+2=5

   (d) Write down the working principle of phase-contrast microscopy with ray diagram.   3+2=5

3. Answer *any one* from the following: 10×1=10

   (a) Give a detailed account on asexual reproduction of fungi. What do you mean by holocarpic and eucarpic fungi?   8+2=10

   (b) Briefly describe the conjugation process in protozoa with suitable diagram. What is encystment of protozoa?   8+2=10

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