

Roll No. _____

: 2

SIS 063 B-2K13

B.Sc. Ist Semester Degree Examination

Botany

(Diversity of Microbes & Non-Vascular Plants-I)

Paper - I

Time : 3 Hours

Maximum Marks : 80

Instructions to candidates:

1. Answer *all* the sections.
2. Diagram will enhance the value of answers.

Section - A

I. Answer the following questions.

(15×1=15)

- 1) Expand SCP.
- 2) What is a Coenobium?
- 3) Expand YBMV.
- 4) Name the genetic material of T.M.V.
- 5) What is trichoblast?
- 6) Name the pigments present in photo synthetic bacteria.
- 7) What is incipient nucleus?
- 8) What are Epiphytic algae?
- 9) What is Viroid?
- 10) What is Capsid?
- 11) Name the symbiotic nitrogen fixation bacterium.
- 12) What is frustule?

- 13) Name the basal cell of oedogonium.
- 14) What are harmogones?
- 15) What is pyrenoid?

Section - B

II. Answer any **five** of the following question:

(5×5=25)

- 16) Describe the sex organs of chara.
- 17) Describe living and non-living characters of Viruses.
- 18) Give an account of economic importance of Blue green algae.
- 19) Describe sexual reproduction in Volvox.
- 20) Describe the symptoms and control measures of papay-leaf curl virus disease.
- 21) Explain the chemical composition of gram positive and gram negative bacterial cell wall.
- 22) Write notes on scytonema.

Section - C

III. Answer any **four** of the following questions:

(4×10=40)

- 23) Describe sexual reproduction in polysiphonia.
- 24) Explain the economic importance of Bacteria.
- 25) Describe sexual reproduction of oedogonium.
- 26) Describe the structure of T.M.V and T₄ bacteriophage.
- 27) Described the contribution of Louis Pasteur.
- 28) Write notes on
 - (i) Agar-agar
 - (ii) Diatomaceous earth.