Seat No. : _____

MB-117

March-2022

B.Sc., Sem.-I

101 : Biotechnology (The Living Being)

Time : 2 Hours]

[Max. Marks : 50

- Instructions :(1)Draw figures wherever necessary.(2)Write question number against each answer.
 - (3) Answer any **three** out of initial **eight** main questions. Question **9** is compulsory.

Section – I

| MB-117 | | 1 P. | Т.О. |
|---------------|--------------|--|------|
| | (B) | Outline the classification of kingdom animalia. | 7 |
| 6. | (A) | Explain in brief about evolution of animals. | 7 |
| | (B) | Write about primitive and advanced marine organisms. | 7 |
| 5. | (A) | Explain body organization of animals. | 7 |
| | (B) | Write about features of angiosperms with examples. | 7 |
| 4. | (A) | Discuss complex tissues of plants. | • |
| 4. | (A) | Discuss complex tissues of plants | 7 |
| | (B) | Write about features of bryophytes. | 7 |
| 3. | (A) | Explain morphogenesis and differentiation plants. | 7 |
| | (B) | Discuss Whittaker's five kingdom classification. | 7 |
| 2. | (A) | Give a brief account of mitochondria and chloroplast in evolution of eukaryotes. | 7 |
| | (B) | Write about cell differentiation with examples. | 7 |
| 1. | (A) | Explain spontaneous and chemical evolution of origin of life. | 7 |

| 7. | (A) | Describe economic importance of algae. | 7 |
|----|-----|--|---|
| | (B) | Explain general characteristics of protozoa. | 7 |
| | | | |
| 8. | (A) | Write about structure of virus. | 7 |
| | (B) | Explain characters of prions. | 7 |
| | | | |
| | | Section – II | |
| 9. | Ans | wer any eight of the following : | 8 |

- (1) Who proposed cell theory ?
 - (2) What are biomolecules ?
 - (3) Write two differences between prokaryotic and eukaryotic cell..
 - (4) What is law of natural selection ?
 - (5) What is thermophile? Give example.
 - (6) What is phytohormone ? Give example.
 - (7) Write structure of parenchyma cells.
 - (8) What is pollination ?
 - (9) What is the function of adventitious roots ?
 - (10) List two examples of economically important fungi?
 - (11) How organs and tissues are coordinated in animals?
 - (12) What are different "taxa" in animal taxonomy?
 - (13) Give an example of coelomates and acoelomates.
 - (14) What is reflex action ?
 - (15) What is BMR?
 - (16) What is virusoid?
 - (17) What is lysogenic cycle ?
 - (18) Write about red algae.
 - (19) What is TMV and CMV ?
 - (20) What is conjugation ?