

(i) Printed Pages: 2

Roll No.

(ii) Questions : 7

Sub. Code :

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Exam. Code :

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B.Sc. (Hons.) Bioinformatics 1st Semester
(2122)

LIFE SCIENCE

Paper : BIN-1004

Time Allowed : Three Hours]

[Maximum Marks : 60

Note :—Attempt **five** questions in all, by selecting at least **two** questions from each Unit and the first compulsory question.

(Compulsory Question)

1. (i) State Cell Theory. 2
- (ii) Give the main differences between plant and animal cells. 2
- (iii) Briefly discuss the basic anatomy of flowering plants. 4
- (iv) Name any two diseases caused by microorganisms. 2
- (v) Give an example of symbiotic relationship that involves microorganisms. 2

UNIT-I

2. Write notes on the following :

- (i) Various stages of cell cycle. 6
- (ii) Structure and function of mitochondria and chloroplast. 6

3. Differentiate between :

- (i) Prokaryotic and eukaryotic cell 6
- (ii) Mitosis and meiosis. 6

4. Write notes on the following :

- (i) Fluid mosaic model of cell membrane. 6
- (ii) Process of digestion of carbohydrates in humans. 6

UNIT-II

5. (a) Explain the concept of origin of life and its experimental proof. 8

(b) Discuss the structure of viruses. 4

6. (a) Compare and contrast pseudopodia, flagella and cilia. 6

(b) Discuss role of microorganisms in food processing industry. 6

7. Discuss the following :

(a) Various types of classification in bacteria. 6

(b) Evidences of evolution, any two. 6