

Submission date AR-110
April 2017

27-03-18
B.Sc. Sem-II
CO-103 : Biotechnology

Time : 3 Hours

[Max. Marks : 70]

1. Answer the following : (any two)

14

- (A) Differentiate between structure of Eukaryote and Prokaryote cells with diagram.
- (B) Discuss chemistry and structure of cytoplasmic membrane.
- (C) Draw the labelled diagram of Chloroplast and Mitochondria and list their functions.
- (D) Explain ultrastructure and function of flagella and cilia.

2. Answer the following : (any two)

14

- (A) Define enzymes and discuss their characteristics.
- (B) List types of membrane transport mechanism and explain any two with diagrams.
- (C) Explain energy generation by the process of photosynthesis.
- (D) How ATP is formed by Respiration and Fermentation ?

3. Answer the following : (any two)

14

- (A) Define senescence and explain various theories proposed for senescence.
- (B) Write a note on Growth and uncontrolled development of Tumor.
- (C) Discuss cell division by mitosis with diagrams.
- (D) Explain various stages of reductive cell division cycle.

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(A) How Metabolism is regulated by control over Activity and synthesis