

 $[2 \times 8 = 16]$

8 = 16

[16]

B.Tech I Year(R05) Supplementary Examinations, May 2010 FUNDAMENTALS OF BIOLOGY (Bio-Technology) Max Marks: 80

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks ****

- 1. Write short notes on:
 - (a) Importance of cell size
 - (b) Biodiversity.
- 2. Write short notes on:
 - (a) Auxins
 - (b) Gibberellins.
- 3. Define species. What is meant by speciation?
- 4. Write short notes on:
 - (a) Triplet codon
- 5. Explain the human body fluid compartments and describe the intracellular and extra cellular body fluids and their functions.

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6. Write short notes on:

- (a) Photo chemistry of vision
- (b) Taste buds
- (c) Deafness
- (d) Olfaction.

[4x4 = 16]

[16]

- 7. Define biotechnology? How biotechnological development contribute to benefit humanity.
- 8. What is a monoclonal antibody? Explain how monoclonal antibodies are used for detection of viruses in plants, animals and human beings. [16]

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