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BT 501

Third Semester M.Sc. Degree Examination, December 2018

(CBCS) (Optional)

BIOTECHNOLOGY (Repeater)

Principles of Biotechnology

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any five** of the following (**not exceeding 2 pages each**). **(5×3=15)**

- a) Prokaryotic cell. Differences between prokaryotes and eukaryotes.
- b) Hot spots of Biodiversity.
- c) Single cell proteins.
- d) Microbes in ruminants.
- e) Flavr-savr tomato.
- f) Immunization versus vaccination.
- g) Biopiracy.

2. Write critical notes on **any five** of the following (**not exceeding 3 pages each**). **(5×5=25)**

- a) Chemical theory of evolution of life.
- b) GM crops.
- c) Biogas.
- d) Genetic manipulation of microorganisms.
- e) Transgenic fish.
- f) Arabidopsis thaliana as model organism.
- g) Energy plantations.
- h) Intellectual property rights.

Answer **any three** of the following (**not exceeding 7 pages each**). **(3×10=30)**

3. Give an account of amino acids and proteins.
 4. Discuss the uses of fermentation technology.
 5. Give an account of stem cells and their applications.
 6. Describe the various strategies for cancer therapy.
 7. Discuss bioremediation.
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