

Code: R5102304

**R05**

B. Tech I Year (R05) Supplementary Examinations, May 2012

**FUNDAMENTALS OF BIOLOGY**

(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Write about the differences between prokaryotes and eukaryotes.  
(b) Write about useful effects of bacteria.
- 2 (a) Write about plant growth regulators.  
(b) Write about biology of pests in relation to cotton.
- 3 (a) Write about classification of animal kingdom.  
(b) Write about protozoan parasite with reference to plasmodium.
- 4 (a) Write about DNA replication.  
(b) Write about recombinant DNA technology.
- 5 (a) Write about digestive system in human body.  
(b) Write about respiratory system in human body.
- 6 (a) Write about neuromuscular and synaptic functions in human body.  
(b) Write about sensory system- visual receptors in human body.
- 7 (a) Write about scope and importance of biotechnology to the field of medicine.  
(b) Write about biofertilizers and their applications.
- 8 (a) Write about the production of Single Cell Protein (SCP) through biotechnology.  
(b) Write about advantages and limitations of genetically modified crops.

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