

T82/SBT051/EE/20160708

Time : 3 Hours

Marks : 80

Instruction :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) What are the different types of fermenter? Explain any one in detail. 5
 - b) Explain Construction and Working of fermenter. 5
 - c) Explain disintegration of cell by physical method? 5
 - d) Enlist various downstream process? 5
 - e) How inoculum build up for fermentation process? 5
2. Solve any **four** sub-questions.
 - a) Explain Acetone butanol production. 5
 - b) Write a short note on industrial alcohol. 5
 - c) Write a short note on Amyloglucosidase. 5
 - d) Enlist medical application of enzymes. 5
 - e) Explain in brief Production of streptomycin. 5
3. Solve any **four** sub-questions.
 - a) Write a short note on Biofertilizer. 5
 - b) What are the different types of biofertilizer? 5
 - c) How biofertilizers work? 5
 - d) Write a short note on Azolla. 5
 - e) How Isolation of Phospho bacteria from rhizoid soil. 5

4. Solve any **four** sub-questions.
- a) Write a short note on Bioinsecticide. 5
 - b) Enlist the biocontrol agent used against weed control. 5
 - c) Enlist the biocontrol agent used against Insects. 5
 - d) Write a short note on Bioherbicides. 5
 - e) Application of Microbial ore leaching. 5

