

**COURSE : MAJOR – CORE**  
**PAPER : ALGAL AND FUNGAL BIOTECHNOLOGY**  
**TIME : 3 HOURS** **MAX.MARKS:100**

**ANSWER ALL QUESTIONS**

**( 18 X 1 = 18 )**

**(5 x 1 = 5 Marks)**

- (5 x 1 = 5 Marks)**

- (4 x 1 = 4 Marks)**

- (4 x 1 = 4 Marks)**

- ..2

**V. Write short notes on any SIX, each in about 50 words. (6 x 3 = 18 Marks)**

19. Single cell protein
20. Phycobilins
21. Biofuel
22. Composting
23. Antibiotic
24. Downstream processing
25. VAM
26. Biofertilizer
27. Bioremediation

**SECTION – B**

**ANSWER ANY FOUR QUESTIONS. EACH ANSWER NOT TO EXCEED 200 WORDS: DRAW DIAGRAMS WHEREVER NECESSARY. (4X6=24)**

28. Write short notes on alginophytes.
29. Give an account on algal hydrocarbon.
30. What is a spawn? How is it prepared?
31. How do you differentiate edible mushroom from poisonous mushroom?
32. Discuss in brief the strain selection methods of *Penicillium*.
33. Write the characteristic features of ectomycorrhiza.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1000 WORDS: DRAW DIAGRAMS WHEREVER NECESSARY. (2X20=40)**

34. Describe the methods for the mass cultivation of *Spirulina*.
35. Write in detail about biofertilizer and its application.
36. Write an essay on citric acid production and its industrial uses.
37. Discuss the application of mycorrhiza in forestry.

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