NOVEMBER/DECEMBER 2018

MAM33 — INDUSTRIAL BIOTECHNOLOGY

Time : Three hours Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Define Screening. Explain the method of primary screening.

Or

(b) What are criteria can be used for selection of industrial microorganisms?

2. (a) Discuss briefly about growth kinetics of microbes.

Or

(b) What is an impeller? Describe about the different types.

3. (a) Define immobilized enzymes. Give an account of methods of immobilization.

Or

(b) Comment on production of fungal SCP from waste.

4. (a) Describe briefly about algae used as feed.

Or

(b) What are the various pigments found in blue green algae? Add a note on their role.

5. (a) Write a short note on recent development in nanobiotechnology.

Or

(b) Give an account on synthesis of silver nanoparticle by bacteria.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Describe in detail about the recombinant DNA technique for improvement of Strain.

7. Write an essay on different methods employed for cell disruption.

8. Explain in detail about the production of streptomycin.

9. Discuss about pharmaceutically valuable compounds from microalgae.

10. Describe in detail patenting the biological materials.

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