

S.No. 210

12PAMED1

(For the candidates admitted from 2012 – 2013 onwards)

P.G. DEGREE EXAMINATION, NOVEMBER 2017.

Second Semester

MICROBIAL TECHNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Write short notes on secondary screening.
Or
(b) Write about the strain improvement.
2. (a) Describe the mass production of Phosphobacterium.
Or
(b) Comment on the microbial production of Azospirillum.
3. (a) Explain the Taq DNA polymerase.
Or
(b) List out the nutritional value of SCP.

4. (a) Explain the manipulative uses of enzymes.

Or

(b) Write the enzyme used in starch processing industry.

5. (a) Describe the microbial leaching.

Or

(b) Give a detailed account on biodegradation of pesticides.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

6. (a) Write an essay on microbial assay of antibiotics.

Or

(b) Explain the strain development.

7. (a) Write an essay on mass cultivation, inoculum production and field application of Azospirillum.

Or

(b) Give a detailed account on vesicular arbuscular microbial associations.

8. (a) Describe the industrial production of alcohol.

Or

(b) Write in detail about the morphology of common edible mushrooms.

9. (a) Write an essay on methods of enzymes immobilization.

Or

(b) Give a detailed account on industrial uses of enzymes.

10. (a) Discuss about the biofuels.

Or

(b) Explain the biodegradation of heavy metals.
