



Date: 10-04-2019
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART- A

Answer the following, each within 50 words.

(10 x 2=20marks)

1. What is microbial technology?
2. What are recombinant products?
3. Comment on Asepsis.
4. What is the function of an agitator?
5. Define mycoproteins.
6. What is yogurt?
7. Define avaccine.
8. Mention the role of insulin.
9. Name any two Bioplastics.
10. Mention the functions of glutamic acid.

PART- B

Answer the following, each within 500 words. Draw diagrams wherever necessary.

(5 x 7=35 marks)

11. (a) Explain the methodology and applications of microbial biomass.

OR

(b) Describe the process of preserving microbial cultures.

12. (a) Explain the technique of sterilizing the glassware used in a laboratory.

OR

(b) Mention few substrates used for solid media preparation.

13. (a) Explain the production of wine by fermentation.

OR

(b) Write notes on mass cultivation of *Spirulina*.

14. (a) What is Hep B vaccine? Add a note on its production and application.

OR

(b) Explain the industrial production of penicillin.

15. (a) What is a primary metabolite? Explain the industrial production of citric acid.

OR

(b) Biofuels are they beneficial and ecofriendly-Justify.

PART- C

Answer any three of the following, each within 1200 words. Draw diagrams wherever necessary.
(3 x 15=45 marks)

16. Explain the process of improvement of industrially important microorganisms.
17. Write an essay on types of fermentors.
18. Explain in detail the mass production of cheese.
19. Discuss the industrial production of vitamin B₁₂.
20. Explain the microbial production and applications of amylase and protease.

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