

Subject III

601-603

Part A

Short answers in two or three lines each:

1. Which strain of yeast is used in brewing industry?
2. What are food additives?
3. What are antibiotics?
4. What is downstream processing?
5. Name the fungi used for production of penicillin.
6. What do you mean by biomass?
7. What are edible vaccines?
8. What is fermentation?
9. Name two methods used for sterilization.
10. What is batch culture
11. E: N Restriction enzyme Eco IR denotes
12. Function of Reverse Transcriptase.
13. Difference in genomic library and c-DNA library
14. Define vector.
15. What is Fish?
16. What is serum free medium?

17. What is Promoter?
18. Define Reporter gene.
19. Define fusion protein tags.
20. Define upscaling and downstream processing.
21. Behavioral science refers to what?
22. Define assertiveness
23. What is motivation?
24. Which are the important aspects of time management?
25. Explain the meaning of creativity,
26. Mention the approaches of conflict resolution.
27. What is meant by communication?
28. Which are the important aspects of listening skills?
29. Define team work.
30. Write about the structure of paragraph.

Part B

1. What are bioreactors? Describe in detail components and types of bioreactors.
2. What is SCP How many types of microorganisms used for the production of SCP
Write a note nutritional value of SCP.
3. What do you mean by enzyme immobilization? Explain different methods used for immobilization and their applications.

4. What are monoclonal antibodies? Discuss the production and application of monoclonal antibodies,
5. Give a detailed account of microbial food products.
6. What are restriction enzymes? Give suitable examples and discuss their role in recombinant DNA technology. Give suitable diagrams also.
7. What is Agrobacterium mediated gene transfer? How does it help in obtaining transgenic plants?
8. Explain with suitable examples and diagrams.
9. What is cDNA library? How is it made? What is its significance in obtaining recombinant molecules?
10. What are transposons? Describe process of transposition in post transcriptional processes as well as in genome
11. Describe role of transgenic plants in improving insect resistance in cotton. Give suitable diagram.
12. Explain benefits of transgenic plants.
13. What are recombinant proteins? How are they produced? What is their role in health and pharmaceutical industry?
14. What are the criteria of selection of expression vector? Give suitable examples of use of different types of expression vectors.
15. What is downstream processing? How are the fusion proteins tagged? What is the method used to isolate expressed proteins and determine their purity?

16. Explain the meaning of self-esteem and self-confidence and mention the technique of self-analysis.
17. Define emotional intelligence and discuss the method of stress management.
18. Illustrate the presentation skills in relation to business plan presentation.
19. Which are the various methods of introducing self ?
20. Describe the process of communication and write down the principles of effective communication,
21. Write a detailed note on spoken English communication
22. Explain the strategies of developing reading and writing skills.
23. What is meant by progression of thoughts?
24. Give short notes on
 - a. Vaccines
 - b. Ethanol production
 - c. Write short notes on :
 - d. Biogas
 - e. Application of enzymes in industry.
 - f. Write short notes on
 - g. Recombinant DNA Technology assisted products
 - h. Biotransformation
 - i. Batch and fed-batch culture.