

## **Subject II**

### **BT 801-806**

Answer the following questions briefly:

1. Write the name of some antimicrobial compounds.
2. Define gene augmentation.
3. Define herd immunity.
4. Name of sexually transmitted disease.
5. Name any two bacterial disease with pathogen.
6. Write the name of two viral disease with pathogen.
7. What is Leprosy?
8. Write the name of antiviral drugs.
9. Define molecular motors.
10. What are antimicrobial agents?
11. Write the name of any two fungal disease with pathogen.
12. Define the following terms:
13. NCBI
14. Protein data bank.
15. BLAST-N
16. Accession Number
17. Nanotechnology
18. Nanomaterials.

19. Carbon-nanotubes
20. Quantum dot
21. FASTA
22. Dendrimers.
23. Explain Copyright Act.
24. Name the act which provide protection for new microorganisms.
25. What is the full form of UPOV?
26. Define Biohazards.
27. Discuss any two Bioethical issues in Gene therapy.
28. Explain A Sui generis system.
29. In which year the Indian Patent Act and the Trademark Acts were established
30. What do you mean by PCT?
31. Name any two biological organisms which may potentially be used as bio weapons
32. Explain the symbol of biohazard by signifying the chain of infection.
33. Define critical reasoning.
34. What are the features of arguments?
35. Write any four common errors done during writing.
36. What are different types of letter? Name.
37. What is meant by Agenda?
38. Write one word for "a letter which is distributed to a large number of people".
39. What are the components of a project report?

40. What are the uses of E-mails?
41. What is meant by Spam?
42. What is meant by slide Layout?
43. Define planning.
44. What is the meaning of Free Rein style of leadership?
45. Explain difference between formal and informal communication.
46. Job evaluation.
47. Anti-dumping duty
48. Write the full form of LIFO and FIFO What is the export duty?
49. Define TQM.
50. What do you mean by sales promotion?

### **Part B**

1. Define gene therapy. Describe briefly the different viral and non viral delivery system that are available for gene therapy. Also discuss the ex-vivo and in-vivo gene therapy.
2. Elaborate the account of viral disease with example.
3. Discuss the therapeutic application of stem cell based drugs.
4. Discuss about the epidemiology, symptoms, diagnosis and preventive measures to control tuberculosis.
5. Give a detailed account of Biological data base.
6. What id hard immunity define it

7. Define the mechanism of antimicrobial agent
8. What is Bioinformatics? Describe its History and Scope.
9. What is sequence alignment? Give a detailed account of multiple sequence alignment and differentiate it from pair wise alignment.
10. Explain the mechanical, chemical and magnetic properties of nano material with examples.
11. Describe the application of Nano technology
12. Explain the Impact of Nanotechnology on Environment, Human health and Society.
13. Give a detail note on various ecological safety assessment of recombinant derived organism.
14. What do you mean by Biohazards? Discuss various levels of Biohazards along with the classification of Biohazardous agents.
15. What is the role of regulatory bodies for releasing GMO in the environment? Also discuss various national as well as international regulatory bodies in detail.
16. Write a detail note on Bioethics by explaining its scope and approaches.
17. What is the Intellectual Property Rights? Discuss various forms of Intellectual Property Rights.
18. Describe patents. Discuss the procedure required to grant the patent.
19. Give an illustrated account of International conventions and treaties with special reference to the world Intellectual Property Organisation,
20. Describe the characteristics of critical discourse

21. What are the components to be included in writing a basic scientific letter?
22. Write a report on your summer Internship.
23. Make a draft of a Brochure.
24. What are the presentation skills for meetings? Describe.
25. Discuss the following
  - a. Problems in getting started in presentations.
  - b. Make 6 slides (draw) on any one of the following:
    - a new technology
    - your favourite sport
    - your institution.
26. Discuss various forms of organizational structures.
27. Define "Principles of Management". Describe its nature.
28. Define motivation. Describe need and importance of motivation.
29. What is control? Discuss the various control techniques?
30. What is communication? Discuss the barriers of effective communication
31. What is personnel management? Discuss the difference between personnel management and HR management
32. Explain the job evolution and its important
33. What are the modern methods of selling? Describe different methods of market research
34. Define Patent? How one can get patent?
35. Write short note on following:

- a. Autoimmune disorders.
- b. Antimicrobial compounds and their role.

36. Write short note on the following.

- a. Disease cycle (any one)
- b. Transmission of pathogen

37. Any five protozoan disease,

38. Any five fungal disease.

39. Antiviral therapy

40. Micro array Technology.

41. Search engines.

42. Bioinformatics in India

43. Nano wires

44. Nano horns

45. Bucky ball

46. Nano tubes.

47. GATT

48. Biopirary

49. Good Paragraph writing –

- a. essential components
- b. Memos,

49. Effect of social influences on critical thinking Barriers to critical thinking.

50. Barriers to critical thinking

51. Flow process chart/diagram

52. MRTP.

53. Quality control

54. Carrying cost and fixed cost.