

B.Pharm/ Sem-I Biotech 25/4/16

Q.P. Code : 24953

(3 Hours)

[Total Marks : 70

1. (a) Define Microbial Assay. 1
(b) Name any two autoimmune diseases. 1
(c) What is prozone effect. 1
(d) Write the difference between exotoxin and endotoxin. 2
(e) Write two types of Immunoglobulin with their significance. 2
(f) Name any two killed viral vaccines with the organism involved. 2
(g) Define 'Gene therapy' and give its applications. 2
(h) Name any four application of rDNA technology. 2
(i) Differentiate between agglutination and precipitation reaction. 2
(j) Name any two examples of Biosensors with their applications. 2
2. (a) Write the production of penicillin-G. 4
(b) Explain different steps involved in down stream process. 4
OR
(b) What are the tools of Genetic Engineering? Explain Alkaline phosphatase in brief. 4
(c) How following factors Affect on fermentation. 3
(i) pH
(ii) A reaction
(iii) Agitation
3. (a) Write a note on plasmid. 4
(b) Write DNA sequencing method (any one) 4
OR
(b) What is PCR? Give its importance in Biotechnology field. 4
(c) Comment on RIA with its applications. 3
4. (a) Enlist Immobilization methods and explain any two methods in detail. 4
(b) Explain the futuristic importance of 'Transgenic animals' with one suitable example. 4
OR
(b) What do you mean by Transgenic? Comment on 'Transgenic plants'. 4
(c) Draw a neat labelled diagram of Fermenter. 3
5. (a) Elaborate on Monoclonal Antibody production with its flow chart and applications. 4
(b) Comment on stem cell culture with its beneficial aspects. 4
OR
(b) Write in brief about plant tissue culture and its applications. 4
(c) Distinguish between Active and Passive Immunity. 3

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6. (a) Differentiate between Diffusion and turbidometry. 3
(b) What is ELISA test? Give its application in diagnostic industry. 3
OR
(b) What is Hypersensitivity? Explain Type-I Hypersensitivity. 3
(c) Describe construction of cDNA library. 3
(d) Write microbial limit of the following raw materials. 2
(i) Gelatin.
(ii) Tragacanth.

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