



Date: 30-10-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer ALL the questions:

(10 X 2 = 20)

1. What is a synthetic media?
2. Define a Bioreactor.
3. What do you mean by Transfection?
4. Comment on Particle gun.
5. Name the techniques used in creation of transgenic animals.
6. Write down the role of transgenic animals in mammalian gene expression.
7. Differentiate RFLP and RAPD.
8. Enlist the research groups and their contributions to HGP.
9. State the Biosafety guidelines.
10. Mention the methods used in detection of GMOs.

PART-B

Answer any FOUR questions:

(4x10=40)

11. Briefly explain the requirements for animal and tissue culture.
12. Write short notes on organ culture technique.
13. What are microarrays? Add a note on its uses.
14. Describe the production of monoclonal antibody.
15. DNA finger printing – Explain.
16. Discuss briefly on the ethical issues related to cloning.

PART-C

Answer any TWO questions: (2X20 =40)

17. Explain molecular markers and its application in rDNA technology.
18. Write in detail on the methods of transfection.
19. Give an account on Human genome project.
20. Discuss about the socio-ethical issues related to genetic engineering.
