

APRIL/MAY 2018

MAM24B — GENETIC ENGINEERING

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL the questions.

1. (a) Write about Spontaneous Mutation.

Or

- (b) Describe about conjugation.

2. (a) Give a short note on Ti plasmid.

Or

- (b) Explain in brief about T4 DNA ligase enzyme.

3. (a) Discuss about linkers and adapter molecules.

Or

- (b) Explain about the northern blotting technique.

4. (a) Write short notes on RFLP.

Or

- (b) Describe about gene silencing.

5. (a) What is mean by genetic counseling? Explain in brief.

Or

- (b) Brief note on Micro array.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. What is the Mechanism of transformation? Discuss in detail.
7. Give an account on Restriction endonuclease enzyme.
8. Explain in detail about gene cloning strategies.
9. Describe about DNA sequencing.
10. Write a detailed account on Recombinant vaccines development.