

NOVEMBER/DECEMBER 2018

MAM24B — GENETIC ENGINEERING

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL the questions.

1. (a) What is mutation? Briefly explain about induced mutation.

Or

- (b) Describe about reversion and suppressor mutation.

2. (a) Discuss about general characteristics of plasmids.

Or

- (b) Describe about yeast artificial chromosomes.

3. (a) Give a brief account on colony hybridization technique.

Or

- (b) Write about cDNA library.

4. (a) Explain in brief about RAPD.

Or

- (b) Write brief note on oligonucleotide synthesis.

5. (a) Give a short note on DNA chips.

Or

- (b) Genetic diagnosis – Explain in brief.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Write detailed account on isolation of mutants.
7. Discuss about DNA polymerase enzymes.
8. Explain in detail about southern blotting technique.
9. Give an account on DNA finger printing.
10. Write in detail about transgenic animals.