6 The phages that are capable of both lytic and lymgenic pathway are called.

9 A bacterium that contains and F factor in its chromosome is known as

(b) Uptake of naked DNA.

(d) Using Bacteriophages.

(b) Col plasmi(l.

(d) RK., plasmid.

(d) None of these.

(b) Bacillus subtilis.

(b) Acquioria victoria.

Turn over

(d) Vihriocholera.

(d) Granilleria.

(b) F cell.

3 Largest virus.

4 A prion disease.

B. Select the correct answer:

7 Transduction is a process:

(c) Through pili.

(a) Tiplasmid.

(c) Riplasmid.

(a) F' cell.

(a) E.coli.

(a) Agaricus.

(c) Cyanobacteria.

(c) Hfr cell.

(a) By cell to cell contact.

5 The test used to measure the mutation rates.

8 The plasmid present in Agrobactericum rhizogene:

10 Natural competency for transformation occur on:

(c) Bacillus lichemformis.

11 The source of green fluorescent protein:

12 The 1st bacterial genome to be completely sequenced:

(a) E.coli.

- (b) Mycobacterium.
- (c) Haemophilus influenza. (d) Bacillus.

(12 x = 3 weightar)

II. Short Answer Type Questions. Answer all nine questions:

- 13 Fluctuation tent.
- 14 LINES and SINES.
- 15 Varoids.
- 16 Lamadaphage.
- 17 Site specific recombinate.
- 18 Suppression mutation.
- 19 Intercalating agents.
- 20 Plasmid copy number.
- 21 Ti plasmid.

x 1 = 9 weightagi

- III. Short Essay or Paragraph Questions. Answer any five questions:
  - 22 The method to prepare competence cell.
  - 23 AC and DC elements in maize.
  - 24 Explain replication of viruses.
  - 25 Explain structure and mechanism of transposition of composite transposon.
  - 26 Explain site specific recombination.
  - 27 Classify viruses based on their nucleic acid.
  - 28 What is specialized transduction ? Explain with suitbale example.

 $5 \times 2 = 10$  weightage

- IV. Essay Questions. Answer any two questions:
  - 29 Write an essay on types of mutation.
  - 30 Give an account on transposable elements.
  - 31 Explain cultivation and enumeration of viruses.

 $(2 \times 4 = 8 \text{ weight.})$