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Internal Test: 2017 (Semester VI)

Date: 07-03-2017

Sub: Microbiology (USO6C MIC-02)

Total Marks: -25

Time: 11-00 to 12-30 p.m.

Q-1 Attempt the following multiple choice question.

(03)

- (1) Restriction enzymes used in gene manipulation techniques belong to :
(a) Class I (b) Class II (c) Class III (d) All of these
- (2) Telomere Sequences are found in this vector
(a) Plasmid (b) λ -vector (c) BAC (d) YAC
- (3) The identification and separation of RNA can be done by:
(a) Southern blotting (b) Northern blotting (c) Western blotting (d) None of these



Q-2 Attempt the following (any two)

(04)

- (1) Define: (a) Linker (b) Adaptor
- (2) What is the difference between cloning vector and Expression vector?
- (3) Differentiate between Scorable & Selectable markers.

Q-3 What is DNA sequencing? Explain Sanger's method of DNA sequencing.

(06)

OR

Q-3 Explain Isolation of DNA.

(06)

Q-4 Write a note on Phage cloning vector.

(06)

OR

Q-4 Write any four salient features of cloning vector and explain pBR322

(06)

Plasmid cloning vector.

Q-5 Discuss various methods of introducing foreign DNA into a suitable host.

(06)

OR

Q-5 Write a note on Southern blotting.

(06)

*****End*****