

Vitthalbhai Patel & Rajratna P.T.Patel Science College, V.V.Nagar

Internal Test: 2014 (Semester VI)

Date: 11-03-2014

Sub: Microbiology (USO6C MIC-02)

Total Marks: -30

Time: 3-30 to 5-00 p.m.

Q-1 Attempt the following (any three) (06)

- (1) Define: (a) Linker (b) Adaptor
- (2) Write the difference between cohesive end and Blunt end.
- (3) What is the difference between cloning vector and Expression vector?
- (4) Define: (a) Plasmid (b) Cosmid
- (5) Define: (a) DNA footprinting (b) Autoradiography
- (6) Give two advantages of Fingerprinting.

Q-2 What is DNA sequencing? Explain Sanger's method of DNA sequencing. (08)

OR

Q-2 Explain (a) c-DNA Library Preparation. (04)

(b) Isolation of RNA. (04)

Q-3 Write any four characteristics of a good host for cloning and discuss Phage cloning vector. (08)

OR

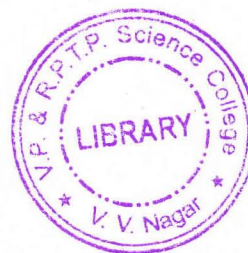
Q-3 Write any four salient features of cloning vector and explain Plasmid cloning vector. (08)

Q-4 Discuss various methods of introducing foreign DNA into a suitable host. (08)

OR

Q-4 Discuss (a) Southern blotting. (05)

(b) Reporter genes. (03)



*****End*****