

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

Internal Test: 2016(Semester V)

Date: 30-09 -2016

Sub: Microbiology (USO5C MIC 02)

Total Marks: -25

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

Q-1 Attempt the following multiple choice questions. (03)

(1) What is the range of wavelength of u.v.radiation?

(a) 4000 Å -2000 Å (b) 3000 Å -5000 Å (c) 8000 Å -10000 Å (d) None of these

(2) Which marker dye is used in electrophoresis technique?

(a) Gention violet (b) Saffranin (c) Bromophenol blue (d) Nigrosine

(3) What is the other name of Molecular sieve Chromatography?

(a) Gel filtration (b) TLC
(c) Absorption (d) Affinity

Q-2 Attempt the following (any two) (04)

(1) Write Beer's law.

(2) What do you mean by isoelectric point?

(3) Explain the term HPLC.



Q-3 Explain principle, instrumentation and application of IR spectroscopy. (06)

OR

Q-3 Explain principle, instrumentation and application of Atomic absorption spectroscopy. (06)

Q-4 Write a note on Density gradient centrifugation. (06)

OR

Q-4 Explain principle, materials and application of SDS-PAGE. (06)

Q-5 Discuss the principle, working and application of Ion exchange Chromatography. (06)

OR

Q-5 Discuss the principle, working and application of Affinity Chromatography. (06)