

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

Internal Test: 2013(Semester IV)

Date: 01-10-2013

Sub: Microbiology (USO5C MIC-02)

Total Marks: -30

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

Q-1 Attempt the following multiple choice questions.

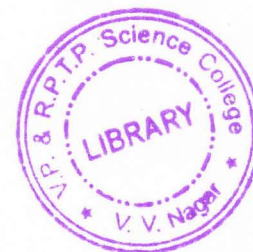
(06)

- (1) Which of the following is not the source of UV radiation?  
(a) Deuterium lamp (b) Mercury arc (c) Tungsten lamp (d) Halogen lamp
- (2) Who introduced atomic absorption spectroscopy?  
(a) Martin Syge (b) L. L. Clark (c) Alan Walsh (d) T. Tswett.
- (3) Which of the following is the gravitational force of earth?  
(a)  $880 \text{ cm/sec}^2$  (b)  $980 \text{ cm/sec}^2$  (c)  $1200 \text{ cm/sec}^2$  (d)  $1350 \text{ cm/sec}^2$
- (4) Which marker dye is used in electrophoresis technique?  
(a) Gention violet (b) Saffranin (c) Bromophenol blue (d) Nigrosine
- (5) Who invented Chromatographic technique?  
(a) Joseph Lister (b) Robert Hook (c) Alan Walsh (d) M. Tswett
- (6) What is the other name of Molecular sieve Chromatography?  
(a) Gel filtration (b) TLC  
(c) Absorption (d) Affinity

Q-2 Attempt the following (any three)

(06)

- (1) What is nephelometry?
- (2) Write Lambert's law.
- (3) What do you mean by isoelectric point?
- (4) What is the function of riboflavin in polymerization?
- (5) Define the term Chromatography.
- (6) Write the difference between partition and adsorption chromatography.



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 Thin Layer Chromatography.

(06)

\*\*\*\*\*End\*\*\*\*\*