



DG-3194
Third Year B. Sc. (Medical Technology) (Sem. V)
Examination
March/April – 2016
MT-15 : Clinical Laboratory Instrumentation

Time : 2 Hours]

[Total Marks : 50

Instruction :

<p>नीचे दृष्टांतवैव निशानीवाणी विगतो उतरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>THIRD YEAR B. SC. (MEDICAL TECHNOLOGY) (SEM. V)</p> <p>Name of the Subject :</p> <p>MT-15 : CLINICAL LABORATORY INSTRUMENTATION</p> <p>Subject Code No. : 3 1 9 4 Section No. (1, 2,.....): Nil</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center; padding: 10px;">Student's Signature</div>						

Q1. Answer the following questions:

1. What do you mean by Chromatic aberration
2. Explain Monochromator
3. Define Rf value
4. Write down the importance of β – mercaptoethanol in SDS-PAGE.
5. Which are advantages of TLC over PC?

Q2. Attempt any one of the following: (12)

1. Give an account of ion-exchange chromatography.
2. Explain the principle, components, operation and applications of U.V.Spectrophotometer.

Q3. Answer any two of the following: (14)

1. Which is the most commonly used detector in High Performance Liquid Chromatography? Why?
2. Explain the different methods of sample preparation in TEM.
3. Justify: Isoelectric focusing separate protein on the basis of pI.

Q4. Write short notes on any two of the following: (14)

1. Colorimetry Vs Spectroscopy
2. High Performance Liquid Chromatography Vs Gas Chromatography
3. Agarose gel electrophoresis