



**AB-3194**  
**Third Year B. Sc. (Med. Tech.) (Sem. V) Examination**  
**March/April – 2015**  
**MT 15 : Clinical Laboratory Instrumentation**  
**(New Course)**

Time : 2 Hours]

[Total Marks : 50

**Instructions :**

(1)

<p>नीचे दृशांयेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : Third Year B. Sc. (Med. Tech.) (Sem. V)</p> <p>Name of the Subject : MT 15 : Clinical Laboratory Instrumentation</p> <p>Subject Code No. : 3 1 9 4 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : □ □ □ □ □ □ □ □</p> <p style="text-align: center;">Student's Signature</p>
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(2) Figures to the right indicates full marks of the questions.

1 Answer the following : 8

- (1) State Beer-Lambert's law. Give its limitations.
- (2) Which are types of column used in GLC ?
- (3) Explain Ion-exchangers and their types.
- (4) What is resolution ? Explain its relation with NA.

2 Attempt any two of the following : 14

- (1) Fluorescence microscopy.
- (2) Colorimeter Vs. Spectrophotometer.
- (3) Scanning electron microscopy.

- 3** Attempt any **one** of the following : **12**
- (1) IEF
  - (2) Ion-exchange chromatography
- 4** Write short notes on : (any **two**) **16**
- (1) Applications of photometer
  - (2) HPLC
  - (3) Supporting medium in electrophoresis.
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