



RAN-1084

T.Y.B.Sc (Medical Technology) (Sem V) Examination

March / April - 2019

Clinical Laboratory Instrumentation

[Total Marks: 50

सूचना : / Instructions

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

T.Y.B.Sc (Medical Technology) (Sem V)

Name of the Subject :

Clinical Laboratory Instrumentation

Subject Code No.: 1 0 8 4

Seat No.:

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Student's Signature

Q:1 Answer the following :

[08]

- (1) State Beer - Lambert's law. Give its limitation.
- (2) Explain: Sephadex.
- (3) Write down the importance of β -mercaptoethanol in SDS -PAGE.
- (4) Explain: Shadow casting.

Q:2 Attempt any two of the following :

[14]

- (1) Explain: Different methods of sample preparation in TEM.
- (2) Describe construction of a spectrophotometer and discuss its uses in biochemistry.
- (3) Explain in detail Confocal microscopy.

Q:3 Answer any one of the following :

[12]

- (1) Discuss the principle, method and application of agar gel electrophoresis.
- (2) Explain the principle, operation and application of HPLC.

Q:4 Write short notes on : (any two)

[16]

(1) Colorimeter Vs Spectrophotometer.

(2) Ion-exchange chromatography.

(3) Isoelectric focusing.
