7272 2+9,

B.Sc. 3rd Semester New Scheme

Examination, November-2017

BIOTECHNOLOGY

Paper-BT-302

Bio Analytical Tools

Time allowed: 3 hours]

[Maximum marks: 40

Note: Attempt five questions in total. Q.No.1 is compulsory and attempt remaining four questions selecting at least one question from each unit.

1. Explain the following:-

 $1\times10=10$

- (a) Application of fluorescence microscopy
- (b) Principle and application of Isoelectric focusing
- (c) Compare Bright field microscopy with dark field microscopy.
- (d) Precautions taken while using centrifuge.
- (e) pH meter
- (f) Colorimetry
- (g) Affinity Chromatography
- (h) HPLC
- (i) Starch gel
- (j) Nanotechnology

Unit-I

2. What do you understand by transmission electron microscopy? Discuss its principle and applications. 7½

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[P.T.O.