



DG-3144

B. Sc. (Microbiology) (Sem. - V) Examination
March/April - 2016

IDS - Instrumentation & Techniques

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दृश्यादिब निशानीयाणी विगतो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. SC. (MICROBIOLOGY) (SEM. - 5)

Name of the Subject :
IDS-Instrumentation & Techniques

Subject Code No. : 3 1 4 4 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labeled diagrams whenever necessary.

Q.1 Give Specific answers

12

- Enlist any four factors which are considered at the time of selection of a centrifuge.
- define: photometer and give advantage of single cell photometer.
- Give the fullform of SDS. Give its principle role in polyacrylamide gel electrophoresis.
- Differentiate between sticky and cohesive end.
- Enlist the four technical errors that observed during cell counting.
- Define: Blotting technique. Differentiate between southern and northern blot techniques.

Q.2 Explain/comment on any two of the following **12**

- a. There are various components involve in flamephotometer
- b. There are several advantage of automated instruments in hematology.
- c. There are two different types of DNA probe methodology based on labeling.

Q3. Discuss any two of the following. **16**

- a. Give the detail note on principle and working of centrifuge.
- b. Define HPLC. Explain various components of HPLC in detail
- c. Explain in detail various components and mechanism of PCR

Q.4 write short notes on any two of the following **10**

- a. Two pan Vs Mono pan balance.
 - b. Basic components of pH meter.
 - c. Synthesis of cDNA
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