(2)

(20518)

Roll No.

B. Sc. (Micro.)-I Year

3490

B. Sc. (Micro.) Examination, May 2018

Instrumentation and Culture Tech.

(B-107)

Time: Three Hours?

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[Maximum Marks: 50

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Note: Answer any Five questions. All questions carry equal marks.

1. What do you understand by transmission electron microscope (TEM) ? Discuss its principle, design and applications. 10

Describe in detail the procedure to prepair most commonly used media for bacteria. 10

Write short notes on the following:

5×2=10

- Different sterilization techniques used in culture media
- Confocal microscopy.

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Define spectrophotometry. Give a detailed account of visible spectrophotometer. 10

Explain briefly:

4+3+3=10

- Electromagnetic radiation
- Absorption spectrum
- Emission spectrum. (c)

*J*6.

Define X-ray crystallography. Give a detailed account of X-ray diffraction. 10

- 7. Define enrichment. Explain in detail enrichment techniques for microbial culture. 10
- 8. A typical bacterial growth curve can be divided into how many distinct phases? Explain. 10

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