

[LB 0212]

AUGUST 2012

Sub. Code: 5003

B.Sc. MEDICAL LABORATORY TECHNOLOGY

FIRST YEAR

PAPER III – GENERAL METHODOLOGY

Q.P. Code : 725003

Time : Three hours

Maximum : 100 marks

(180 Mins) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks

(Max.)(Max.)(Max.)

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|---|---|----|----|
| 1. Enumerate the common laboratory infections and the precautions taken while handling the infective materials. | 7 | 20 | 10 |
| 2. Define and classify Sterilizations. Discuss in detail about Autoclave and Hot Air Oven? | 7 | 20 | 10 |
| 3. Draw a labeled diagram of Bacterial cell. Compare and Contrast gram positive gram negative cell wall. | 7 | 20 | 10 |

II. Write Notes on:

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|--|---|----|---|
| 1. Pathogenic properties of bacteria? | 4 | 10 | 5 |
| 2. Name the Causatives of Laboratory accidents? Write about prevention, safety and first aid in Accidents caused by Acids? | 4 | 10 | 5 |
| 3. Write about Leukocytes, types and its functions? | 4 | 10 | 5 |
| 4. Reporting and Recording Procedures of a Lab. | 4 | 10 | 5 |
| 5. Gaseous disinfectants. | 4 | 10 | 5 |
| 6. Cleaning of glass wares. | 4 | 10 | 5 |
| 7. What are the precautions to be taken to avoid Haemolysis of blood? | 4 | 10 | 5 |
| 8. Define a) Normality
b) Molarity
c) Isotonic Solution
d) Mean
e) Standard Deviation. | 4 | 10 | 5 |

III. Short Answers on:

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|---|---|---|---|
| 1. Pathogenesis. | 2 | 4 | 3 |
| 2. Red cell inclusions? | 2 | 4 | 3 |
| 3. Tyndalization. | 2 | 4 | 3 |
| 4. What is the temperature and time for hot air oven? | 2 | 4 | 3 |
| 5. Write about the disposal of Laboratory waste? | 2 | 4 | 3 |
| 6. Name two anticoagulants and its uses? | 2 | 4 | 3 |
| 7. List different types of pipettes used in Laboratory? | 2 | 4 | 3 |
| 8. Give the uses of Transport Media. | 2 | 4 | 3 |
| 9. Why quality control should be used in a Laboratory? | 2 | 4 | 3 |
| 10. Grades of Chemicals. | 2 | 4 | 3 |
