

[LD 0212]

AUGUST 2013

Sub. Code: 5004

**B.Sc. MEDICAL LABORATORY TECHNOLOGY  
FIRST YEAR  
PAPER IV – PHYSICS AND PRINCIPLES OF INSTRUMENTATION**

*Q.P. Code : 725004*

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

**I. Elaborate on:**

**(3x10 = 30)**

1. Write in detail about centrifuge, types and its application in Medicine
2. Give an elaborate note on Spectrophotometer
3. Write detail about GM Counter

**II .Write Notes on:**

**(8x5 = 40)**

1. P<sup>H</sup> Meter and its parts
2. Difference between Centrifugal force and Centripetal force
3. State Beer-Lambert's Law
4. Types of Microscopes
5. Incubator and its parts
6. Application of Ultra sound in medical field
7. Laws of Radio Activity
8. Differences of AC and DC Current in detail

**III. Short Answers on:**

**(10x3 = 30)**

1. Specific gravity
2. Define Thermodynamics
3. Water bath care and usage
4. Ohm's Law
5. Frequency
6. Electrolysis
7. Un Interrupted Power Supply
8. Parts of distillation apparatus
9. Radio Activity and its types
10. Half-life period

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