

[LK 0217]

FEBRUARY 2017

Sub. Code: 5004

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

Q.P. Code: 725004

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. What are the types of balance? Write a note about its use in laboratory and care of the balance.
2. Properties and problems of ultrasound and its application in medical field.
3. Describe about radiation personnel monitoring devices used in hospital.

II. Write notes on: **(8 x 5 = 40)**

1. Auto clave.
2. Rectifier.
3. Write about centrifugal and centripetal force.
4. Viscosity.
5. Lasers.
6. Artificial radioactivity.
7. Electro magnetic radiations.
8. Filters.

III. Short answers on: **(10 x 3 = 30)**

1. Magnification.
2. Polarizing microscope.
3. Aberrations.
4. Charle's Law.
5. How to take care of the Electrical balance?
6. What are the types of lenses?
7. What are the difference between simple and compound microscope?
8. Diodes.
9. Amplifier.
10. Kinetic theory of gases.
