

[AHS 0321] **Sub. Code: 5004 MARCH 2021** 

## (AUGUST 2020 EXAM SESSION)

## **B.Sc. MEDICAL LABORATORY TECHNOLOGY** FIRST YEAR (From 2010-2011 onwards)

PAPER IV - PHYSICS AND PRINCIPLES OF INSTRUMENTATION

O.P. Code: 725004

**Time: Three hours Answer ALL Questions** Maximum: 100 Marks

I. Elaborate on:  $(3 \times 10 = 30)$ 

1. Describe in detail, the construction and working of centrifuge. What are the applications of centrifuge in medical laboratory.

- 2. Describe in detail, the construction and working of electron microscope. What are the advantages compared to other microscopes.
- 3. Describe about radiation personnel monitoring devices used in hospitals.

II. Write notes on:  $(8 \times 5 = 40)$ 

- 1. Specific gravity and its applications.
- 2. Kinetic Theory of gases.

- 4. Production of ultrasoun
  5. Construction and working of transforme
  6. Radioactivity.
  7. Rectifie
  8. Incubato

  Short answers on:
  1. Osmosis.
  2. Thermostat.
  3. Total

III. Short answers on:

 $(10 \times 3 = 30)$ 

- 3. Total internal Reflection.
- 4. What is ultrasound?
- 5. Fuse.
- 6. What is wavelength?
- 7. What is UPS?
- 8. Application of Ultrasound in medicine.
- 9. Half life.
- 10. Electromagnetic spectrum.

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