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Rajiv Gandhi University of Health Sciences, Karnataka I year B.Sc. Nursing (PC) Degree Examination - 27-Nov-2020

Time: 3 Hours Max. Marks: 37 Marks

BIOPHYSICS - (RS-3 & RS-4) Q.P. Code: 1740

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

(Note: Both OP Codes 1739 and 1740 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 9 = 9 Marks

- What are X-rays? How are they produced? List the properties and uses of X-rays in medicine.
- What is the normal audio frequency range of normal human ear? Explain the relation between frequency, velocity and wavelength. Write a note on audiometry?

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

- Use of pacemakers and defibrillation.
- Explain hydrostatic pressure and osmotic pressure.
- 5. Use of heat for sterilization.
- Use of light in therapy.
- Effect of principles of gravity in nursing.

SHORT ANSWERS 4 x 2 = 8 Marks

- 8. Explain why steam burn is more injurious than burn due to boiling water?
- 9. What are isotopes and isobars?
- Define electrical resistance and write its units.
- Write a neat diagram of ECG and label.
