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# Rajiv Gandhi University of Health Sciences, Karnataka

I year B.Sc. Nursing (PC) Degree Examination – SEP-2017

**Time: 3 Hours** 

## **Biophysics**

# Q.P. Code: 1740

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary (Note : Both QP Codes 1739 and 1740 are to be answered within total duration of 3 hours)

### LONG ESSAYS (Answer any One)

- 1. State the laws of reflection. What is refraction of light and what is the refractive index of glass. Write a note on photo therapy in medial practice.
- 2. What are X-rays? How are they produced? What are the properties and uses of X-rays in medial practice?

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#### SHORT ESSAYS (Answer any Four)

- 3. Explain the principle, construction and working of an autoclave.
- 4. What are the applications of gravity in Nursing?
- 5. What are the defects of vision? How are they corrected?
- 6. Define Ohm's law and explain.
- Name any 2 properties of radio isotope and their application in medical practice. 7.

#### SHORT ANSWERS

- 8. Write the units of force in CGS system and MKS system.
- 9. Explain Newton's second law of motion with example.
- 10. Give any two uses of ultrasound.
- 11. List different types of heat transfer mechanism. www.Fit

### $1 \times 9 = 9$ Marks

 $4 \times 5 = 20$  Marks

Max. Marks: 37 Marks

#### $4 \times 2 = 8$ Marks