

Rajiv Gandhi University of Health Sciences, Karnataka

I year B.Sc. Nursing (PC) Degree Examination – Mar 2013

Time: 3 Hours

Max. Marks: 37 Marks

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 x 9 = 9 Marks

1. Explain Newton's three laws of motion with example. Define velocity and acceleration with example.
2. Define Radioactivity. What are the properties of radioactive radiation? Mention the application of radioisotopes in medical practice.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Explain how the Density of urine is measured using urine meter with diagram.
4. Use of ultrasonic waves in medical practice
5. What are the defects of vision? How they are rectified.
6. What is a Cardiac Pacemaker?
7. Draw a neat diagram of ECG – Lead II and label its parts.

SHORT ANSWERS

4 x 2 = 8 Marks

8. Under water, exercises are advised for patients suffering from joint pain and dislocations. Why?
9. Name three orders of lever with example.
10. Define blood pressure and give its normal values.
11. Give two examples of use of heat in sterilization

