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Rajiv Gandhi University of Health Sciences, Karnataka I year B.Sc. Nursing (PC) Degree Examination - Sep 2012

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)

- State and explain pascal's law. How this law finds its applications in the measurements of blood pressure. Explain the construction and working of sphygmomanometer
- State and explain Newton's laws of motion? List the clinical applications of gravity in nursing

SHORT ESSAYS (Answer any Four)

 $4 \times 5 = 20 \text{ Marks}$

- What is lever? Mention different types of levers with examples
- Explain the difference between stable isotope and radioactive isotope
- Write a note on cardiac pacemaker
- Distinguish between kinetic energy and potential energy with examples
- What are the modes of transmission of heat give one example for each

SHORT ANSWERS

4 x 2 = 8 Marks

- e between systolic and and note on radiation

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