

I year B.Sc. Nursing (PC) Degree Examination – October 2015

Time: 3 Hours

Max. Marks: 37 Marks

Biophysics**Q.P. Code : 1740**

Four 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. State Newton's Law of Gravitation. Explain the effects of gravity on human body and its applications in nursing.
2. Explain the expansion of Solids, Liquid and Gases.

SHORT ESSAYS (Answer any Four)**4 x 5 = 20 Marks**

3. Explain short wave diathermy.
4. Discuss calorimeter – design and principle.
5. What are types of Errors?
6. What is ultrasound? Give its uses.
7. Explain: Friction.

SHORT ANSWERS**4 x 2 = 8 Marks**

8. What are isotopes?
9. Define ocular and intracranial pressure.
10. Convert 98.6° F (normal body temperature) into centigrade scale.
11. Define speed and velocity.
