

# Rajiv Gandhi University of Health Sciences, Karnataka

1<sup>st</sup> year B.Sc. Nursing (PC) Degree Examination – September 2014

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. Describe types of Thermometers. Explain why mercury is a preferred thermometer liquid.
2. Explain Biological effects of light.

### **SHORT ESSAYS (Answer any Four)**

**4 x 5 = 20 Marks**

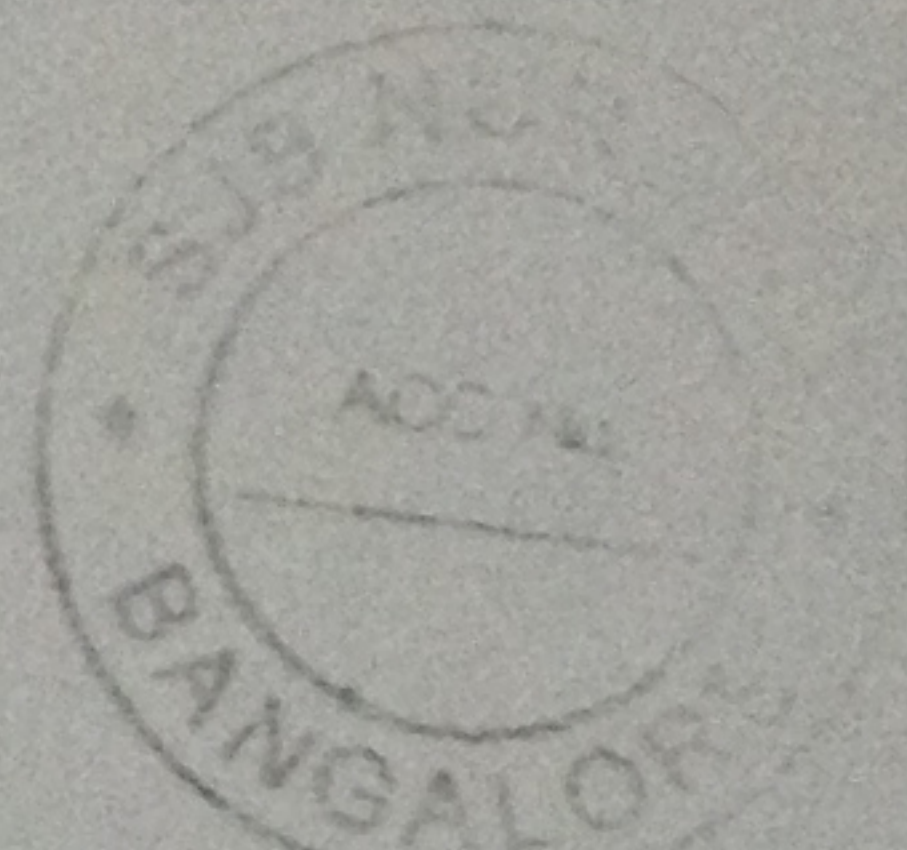
3. Explain the effects of electricity on human body.
4. Explain centrifuge and its uses.
5. Explain the forces acting on human body.
6. How body temperature is regulated?
7. State laws of reflection and refraction.

### **SHORT ANSWERS**

**4 x 2 = 8 Marks**

8. What is audiometry?
9. Define specific heat. Give its unit.
10. Differentiate: Kinetic and Potential energy.
11. What is Displacement? Give its unit.

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