1/39 2011 1 5221

4 x 5 = 20 Marks

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. Nursing (PC) Degree Examination - Feb/March 2011

Time: Three Hours

Max. Marks: 75 Marks

BIOCHEMISTRY & BIOPHYSICS (RS-3 & RS-4)

Q.P. CODE: 1739& 1740

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary Use separate answer books for section A and section B

Q.P. Code: 1739 - Section A - BIOCHEMISTRY (38 Marks) LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

- Discuss the formation of Glucose form lactate
- Name the ketone bodies. Discuss ketogenesis and ketolysis

# SHORT ESSAYS (Answer any Four)

Hormonal regulation of blood glucose levels

- Diagnostically important enzymes
- Digestion of fats
- Discuss the regulatory mechanism of water balance 6.
- Discuss uric acid formation

### SHORT ANSWERS

- Glycosuria
- Functions of albumin
- 10. Ribosomes
- Give the normal serum levels of (a) Sodium (b) Potassium

4 x 2 = 8 Marks

"REFERENCE" - " " " Y"

Q.P. Code: 1740 - Section B - BIOPHYSICS (37 Marks)

Use separate answer book

LONG ES (Answer any One)

1. Discuss (Answer any One)

2. What is the policiple of ECG? Explain how ECG is taken and tracings are interpreted SHORT ESSAYS (Answer My Four)

4 x 5

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

1 x 9 = 9 Marks

- What are the applications of gravity in nursing? Explain any two application
- What is osmosis? Explain osmotic pressure
- What is noise pollution? How it can be prevented
- Define frequency and wavelength obtain the relation between energy, frequency and wave lengt 6. of light

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What is pacemaker? Explain its application

## SHORT ANSWERS

 $4 \times 2 = 8 \text{ Mark}$ 

- Define uniform velocity and acceleration 8.
- What are systolic and diastolic 9.
- Define electric current and election potential 10.
- What is defibrillation 11.