Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. Nursing (PC) Degree Examination - August 2010

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

- What are enzymes? Outline their classification giving an example
- Give an account of the digestion and absorption of proteins

SHORT ESSAYS (Answer any Four)

- Functions and distribution of water in the body
- Enzymes in the diagnosis of myocardial infarction
- Absorption of glucose tolerance test
- 6. Urea cycle
- Kepoproteins

SHORT ANSWERS

- Substrate level phosphorylation with one example 8.
- Importance of uronic acid pathway 9.
- 10. Normal levels of albumin and cholesterol in serum

Two inhibitors of the electron transport chain with their site of action ' (-

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

4 x 2 = 8 Marks

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

Use separate answer book

LONG ESSAY Onswer any One)

What is State Isotope and Radio Isotope? Name any two methods of preparation of Radio Isotope and their Optication in medical practice

What is the normal audio frequency range of normal human ear? Explain the relation between frequency, velocity and wavelength. Write a note on Audiometry

SHORT ESSAYS (Answer any Four)

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

- State and explain the Newton's laws of motion
- Define velocity, Acceleration, and Acceleration due to Gravity. Mention their units 4.
- 5. Explain the principle, construction and working of an Autoclave
- Write a note on use of X-rays in clinical practice 6.
- Name the defects of vision. How they are correcterd?

SHORT ANSWERS

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

- Why ice floats on the surface of water? Explain 8.
- 9. Gravity affects circulation of blood. Explain
- 10. What are the uses of ultrasonic waves?
- 11. Steam burn is more injurious than that due to boiling water. Explain

米米米米