1677_2008_1_S42

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. (Nursing - Basic) Degree Examination – March / April 2008

Time: Three Hours **Max. Marks: 80 Marks**

PHYSIOLOGY & BIOCHEMISTRY - (Revised Scheme)

Q.P. CODE: 1677 & 1678

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: 1677 – Section A – PHYSIOLOGY (40 Marks)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Explain intrinsic and extrinsic mechanism of blood clotting
2. Draw a neat diagram of Neuro muscular junction and label its parts and explain the mechanism of transmission of nerve impulse across it

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

3. Mention the names of endocrine glands present in the body and the hormones secreted by them
4. Mention the different types of special senses present in the body and the receptors that detect them
5. What are the different functions of the kidney and draw a neat diagram of nephron and label its parts
6. Mention the functions of saliva
7. Mention the actions of testosterone

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Mention any four family planning methods
9. Define cardiac output and what is the normal cardiac output
10. Name the muscles of inspiration
11. Mention any two parts of the brain and its functions
12. What is mitosis and meiosis? Where does it takes place?

Q.P. Code: 1678 – Section B – BIOCHEMISTRY (40 Marks)

Use separate answer book

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Enumerate the ketone bodies. How are they formed? Give the causes for Ketosis
2. Describe the formation & fate of lactic acid in the body

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

3. Outline the importance of the amino acid – Glutamic acid
4. What are plasma proteins? Give their functions
5. Biochemical role of thiamine
6. Role of kidney in acid base balance
7. Metabolic acidosis

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Clinical utility of the enzymes alkaline phosphatase & acid phosphatase
9. Night blindness – cause and prevention
10. Name two antioxidants
11. Coenzyme forms of pantothenic acid and riboflavin
12. Protein energy malnutrition

*****