

NURSB - 1677 - PHYSIOLOGY & BIO CHEMISTRY - TP1 (AUGUST-2010)_AUGUST-10 (OCT-10).doc
Rajiv Gandhi University of Health Sciences, Karnataka
First year B.Sc. (Nursing - Basic) Degree Examination – August 2010

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. Classify and describe the white blood corpuscles. What are their functions?
2. Describe the physiological functions of Thyroxine

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

3. Describe the functions of oestrogen
4. Define micturition. How is it controlled?
5. Define and give normal values of a) Tidal volume b) vital capacity
6. Describe the functions of stomach
7. Draw and label reflex arc. Define reflex

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

8. Name the cutaneous receptors
9. List the functions of haemoglobin
10. Define blood pressure. Give normal values
11. What is the normal body temperature? Name the organs helping in its regulation
12. Name the hormones of adrenal cortex

Q.P. Code: 1678 – Section B – BIOCHEMISTRY (40 Marks)**Use separate answer book****LONG ESSAYS (Answer any One)****1 x 10 = 10 Marks**

1. Describe the β -oxidation of palmitic acid. Add a note on its energetics
2. Describe the metabolism of phenylalanine. How is epinephrine formed?

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

3. Digestion in the stomach
4. Role of kidney in acid-base balance
5. Vitamin A deficiency
6. Blood glucose regulation
7. Metabolic acidosis

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

8. Biochemical functions of ascorbic acid
9. Dietary fibre
10. Albumin globulin ratio
11. Biochemical functions of vitamin K
12. Avidin
