

NURSB - 1677 - PHYSIOLOGY & BIO CHEMISTRY - TP1 (AUGUST-2009)_AUGUST-09 (OCT-09).doc

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. (Nursing - Basic) Degree Examination – Aug / Sept 2009

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 body fluid compartments. Give normal values. How is total body water determined?
2. Define blood pressure. How is it measured? List the factors affecting blood pressure

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

3. Describe the functions of blood
4. Draw and label spiogram
5. Describe the stages of spermatogenesis
6. Describe the movements of small intestines
7. Classify muscles. List the differences between them

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

8. State Landsteiner's law
9. Name the muscles of respiration
10. List four functions of saliva
11. What is the normal serum calcium level? Name the hormones regulating it
12. What are the functions of counter current mechanism in the kidney?

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

1. Discuss the causes, synthesis and utilization of ketone bodies
2. Describe the sources, provitamin form, functions & deficiency manifestations of Vitamin D

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

3. Useful compounds synthesized from amino acid tyrosine
4. Hormonal regulation of blood sugar level
5. Structure and function of cholesterol
6. What is BMR (Basal metabolic rate)? Discuss the factors that affect BMR
7. Role of kidney in acid-base balance

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

8. Rothera's test
9. Causes for metabolic acidosis
10. Night blindness
11. Glycosuria
12. Differences between starch and glycogen
