

NURSB - 1755 - NUTRITION & BIOCHEMISTRY - TP1 (AUGUST-2009)_AUGUST-09 (OCT-09).doc

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. Nursing Degree Examination – Aug / Sept 2009

Time: Three Hours**Max. Marks: 75 Marks****NUTRITION & BIOCHEMISTRY (RS - 3)****Q.P. CODE: 1755 & 1756**

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: 1755 – Section A – NUTRITION (45 Marks)****LONG ESSAYS (Answer any One)****1 x 10 = 10 Marks**

1. Write about classification, dietary sources, recommended daily allowances of minerals
2. Mention the water soluble vitamins. Write about hypervitaminosis

SHORT ESSAYS (Answer any Five)**5 x 5 = 25 Marks**

3. Mid-day meal programme
4. Nutritional problems in India
5. Deficiencies of protein
6. Maintenance of fluid & electrolyte balance
7. Food additives and its principles
8. Assessment of nutritional status

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

9. Vitamin C function & deficiency
10. Classification of carbohydrates
11. Storage of food
12. Balanced diet
13. Deficiencies of vitamin B6

Q.P. Code: 1756 – Section B – BIOCHEMISTRY (30Marks)**Use separate answer book****LONG ESSAYS (Answer any One)****1 x 10 = 10 Marks**

1. Give a detailed account on aerobic glycolysis. Explain the energetics and regulation of this pathway
2. Describe β -oxidation of fatty acids. Add a note on energetics of palmitic acid oxidation

SHORT ESSAYS (Answer any Two)**2 x 5 = 10 Marks**

3. Urea cycle
4. Formation and utilization of ketone bodies
5. Renal regulation of acid-base balance

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

6. What are anti-oxidants? Give two examples
 7. Biochemical functions of calcium
 8. Competitive inhibition of enzymes
 9. Functions of ascorbic acid
 10. Write the normal range of
c) Serum cholesterol
- a) Random Blood Glucose
d) Serum bilirubin
- b) Blood Urea
