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**Rajiv Gandhi University of Health Sciences, Karnataka**  
First year B.Sc. Nursing Degree Examination – Feb 2010

Time: Three Hours

Max. Marks: 75 Mar

**NUTRITION & BIOCHEMISTRY (RS - 3)**

**Q.P. CODE: 1755 & 1756**

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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 Mark

1. Discuss the nutritional problems in India. Describe the national programmes implemented to tackle problems of malnutrition among our population.
2. What is weaning? List the principles of weaning. Explain the schedule for introducing weaning foods with appropriate examples for Indian mothers.

**SHORT ESSAYS (Answer any Five)**

5 x 5 = 25 Mark

3. Mid-day meal programme.
4. Food standards.
5. Preservation of food.
6. Balanced diet for a Toddler.
7. RDA for a heavy worker female adult.
8. Xerophthalmia.

**SHORT ANSWERS**

5 x 2 = 10 Mark

9. Vitamin A prophylaxis schedule.
10. Functions of Calcium.
11. Dietary sources of Vitamin D.
12. Exclusive Breast Feeding.
13. Fortification of Food.

**Q.P. Code: 1756 – Section B – BIOCHEMISTRY (30 Marks)**

Use separate answer book

**LONG ESSAYS (Answer any One)**

1 x 10 = 10 Mark

1. Explain the sources, RDA, biochemical functions and deficiency disease associated with Vitamin D.
2. Explain the various steps of the Citric acid cycle. Add a note on its energetics.

**SHORT ESSAYS (Answer any Two)**

2 x 5 = 10 Mark

3. Mention the different types of Lipoproteins and their functions.
4. Factors influencing Enzyme activity.
5. Renal regulation of Acid- Base Balance.

**SHORT ANSWERS**

5 x 2 = 10 Mark

6. Starch.
7. Essential amino acids.
8. Name the bile salts and their functions.
9. Hypercholesterolemia.
10. Mitochondria.

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