

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. (Nursing - Basic) Degree Examination – Sept / Oct 2008

Time: Three Hours

Max. Marks: 80 Marks

PHYSIOLOGY & BIOCHEMISTRY - (Old Scheme)

Q.P. CODE: 1652 & 1653

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: 1652 – Section A – PHYSIOLOGY (40 Marks)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe erythropoiesis. What are the factors affecting erythropoiesis?
2. Describe the composition and functions of saliva

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Describe the classical ABO blood groups
4. Explain the functions of Aldosterone
5. List the hormonal contraceptives for female and give the mechanism of action
6. Explain the functions of large intestine
7. List the different lung volumes with their normal values and significance

SHORT ANSWERS

5 x 2 = 10 Marks

8. Explain the errors of refraction of eye
9. List the functions of cerebellum
10. What are the functions of platelets?
11. Classify reflexes by giving examples in each types
12. Define vital capacity. Give the normal value and factors affecting vital capacity

Q.P. Code: 1653 – Section B – BIOCHEMISTRY (40 Marks)

Use separate answer book

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Give an account of the dietary sources, activation, biochemical functions, daily requirement and deficiency manifestations of vitamin D
2. Describe the metabolism of Glycogen

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Van Den Bergh reaction and its significance
4. Role of insulin
5. Digestion and absorption of carbohydrates
6. Functions of phospholipids
7. Structure of DNA

SHORT ANSWERS

5 x 2 = 10 Marks

8. Disaccharides
9. Biuret test
10. Free and total acid of gastric juice
11. Name two aromatic amino acids and two aliphatic amino acids
12. Renal glycosuria