



Time: 3 Hrs.

[Max. Marks : 70]

**GENERAL HUMAN PHYSIOLOGY & BIOCHEMISTRY, NUTRITION & DIETICS
1179 & 1180 (RS3)**

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary. **Use separate answer books for section A and section B.**

QP Code: 1179 - Section A - HUMAN PHYSIOLOGY [35 Marks]

LONG ESSAY**1 X 10 = 10 Marks**

1. Describe the functions and regulation of secretion of growth hormone. Add a note on Acromegaly

SHORT ESSAY**3 X 5 = 15 Marks**

2. Describe fate of haemoglobin following Haemolysis
3. Describe with help of a diagram the pressure & volume changes in ventricles during cardiac cycle
4. Where are peripheral chemoreceptors present? What is their role in regulation of respiration

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

5. What is Myopia? How is it corrected
6. What is the physiologic basis for pregnancy tests
7. Name the different types of movement of small intestine
8. Define inulin clearance. What is its significance
9. Define the terms Rheobase and Chronaxie

QP Code: 1180 - Section B – BIOCHEMISTRY, NUTRITION & DIETICS
[35 Marks]

Use separate answer book**LONG ESSAY****1 X 10 = 10 Marks**

1. Classify enzymes giving suitable examples for each class. Add a note on enzyme specificity.

SHORT ESSAY**3 X 5 = 15 Marks**

2. Functions of Vitamin A.
3. Enzymes of lipid digestion.
4. Cori's cycle.

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

5. Enumerate the general features of genetic code.
6. Define and mention all the essential aminoacids.
7. Biologically important derivatives of cholesterol.
8. Define clearance and mention the normal values of creatinine clearance rate.
9. Alkaptonuria – Defect and biochemical changes.

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