



Rajiv Gandhi University of Health Sciences, Karnataka

MBBS PHASE I Degree Examination - June / July 2012

Time: Three Hours

Max. Marks: 100 Marks

**PHYSIOLOGY - I
(RS 2 & RS 3)
Q.P. CODE: 1077**

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Describe the mechanism of blood coagulation. Add a note on haemophilia
2. Describe in detail the neural regulation of respiration

SHORT ESSAYS

10 x 5 = 50 Marks

- 3 What is the composition and functions of pancreatic juice?
- 4 Describe the Sino - Aortic reflex
- 5 Describe the mechanism of HCL secretion in stomach
- 6 Describe the renal tubular handling of sodium
- 7 Describe the forms in which carbon dioxide is transported in blood? Add a note on chloride shift
- 8 Explain the Entero - hepatic circulation. Give its importance
- 9 Describe the ionic basis of cardiac pacemaker potential
- 10 Write briefly on Erythrocyte Sedimentation Rate
- 11 Enumerate different modes of transport across cell membrane. Describe primary active transport with an example
- 12 Describe the cardiovascular changes during muscular exercise

SHORT ANSWERS

10X3=30 Marks

- 13 Mention the properties of cardiac muscle
- 14 Give the laboratory classification of anaemia with an example for each
- 15 What is Bombay blood group?
- 16 Draw a labeled diagram of a Nephron
- 17 List three differences between first and second heart sounds
- 18 Define tidal volume and residual volume. Give their normal values
- 19 What is Achalasia cardia? What is its cause?
- 20 What is Windkessel effect? What is its significance?
- 21 What is GFR? Give its normal value. How is it measured?
- 22 List the functions of CCK PZ