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Rajiv Gandhi University of Health Sciences, Karnataka

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MBBS PHASE I Degree Examination – June / July 2011

Time: Three Hours Max. Marks: 100 Marks

PHYSIOLOLOGY - 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 (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Name the lead systems employed in recording Electrocardiogram. Draw and label a typical Electrocardiogram and explain the causation of various deflections and intervals
- 2. Classify the leucocytes and describe their morphological features with the help of diagrams. Elaborate the steps involved in the phagocytic function of neutrophils

SHORT ESSAYS 10 x 5 = 50 Marks

- 3 Draw a diagram of Juxta Glomerular apparatus. Explain its functions
- 4 Mention the causation, morphological features of red cells and treatment of pernicious anemia
- 5 Describe the factors regulating gastric emptying
- 6 Describe the chemical regulation of respiration
- 7 Describe how cushing's reflex is activated and its effect on systemic blood pressure
- 8 Define Fick's principle. Give details of estimation of cardiac output based on it
- 9 Describe the mode of Glucose reabsorption in the proximal tubule of the Nephron and TmG
- What are the types of jaundice, their salient features and method of differentiation
- 11 Give a brief account of respiratory distress syndrome (Hyaline Membrane Disease)
- 12 Describe the pharyngeal phase of deglutition

SHORT ANSWERS 10X3=30 Marks

- What are micelles and how are they formed
- Define functional residual capacity, its normal range and significance
- 15 Explain the operation of Hering Breuer reflex
- Name two anticoagulants. Explain mechanism of action of any one of them
- 17 What are the types of dead space and their extent
- 18 What is facilitated diffusion and how does it differ from simple diffusion
- 19 Name the important proteolytic enzymes and their mode of activation
- 20 Describe how gastric acid secretion can be reduced to treat acid peptic ulcer



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- 21 Mention the effects of vagal stimulation on heart
- What is secondary active transport? Give an example

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