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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - February 2007

Time: 3 Hrs.

[Max. Marks: 100]

QP Code: 1077

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY 2 X 10 = 20 Marks

- Describe the mechanism of formation of urine.
- Discuss the regulation of cardiac output.

SHORT ESSAY 10 X 5 = 50 Marks

- Explain rennin-angiotensin mechanism
- 4. Explain the dynamics of capillary fluid exchange. How is it affected in hypoproteinemia?
- 5. Explain the factors affecting the affinity of oxygen to hemoglobin
- Classify 'Hypoxia', Give example for each type. Mention distinguishing features of each type of hypoxia
- Explain respiratory distress syndrome. Add a note on 'pulmonary surfactant'
- 8. Explain why vitamin B12 deficiency causes anemia. Give the blood picture in this condition.
- Complications of mismatched blood transfusion
- Deglutition reflex
- 11. Gastric phase of gastric secretion
- 12. Functions of large intestine

SHORT ANSWERS 10 X 3 = 30 Marks

- Name the arterial baroreceptors. How are they stimulated? Mention two effects of stimulation of baroreceptors
- Explain the triple response
- Explain Herring-Brewer inflation reflex
- 16. Explain the morphology and functions of monocytes
- 17. What is prothrombin time? Explain its usefulness as a haemostatic test
- Give the value of normal blood volume in adults. Explain the principle of measurement of blood volume
- 19. What is the normal plasma osmolarity?
- Explain the genesis of peristalsis in small intestine
- 21. Mention the source, stimulus for release and actions of secretin
- 22. Draw diagram to show nerve supply to urinary bladder and its sphincters

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