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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: 90]

QP Code: 1003

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY 2 X 10 = 20 Marks

- Describe the structure of a skeletal muscle. Explain the molecular basis of skeletal muscle contraction.
- Define haemostasis. Describe the stages of haemostasis. Describe the mechanism of blood coagulation.

SHORT ESSAY 10 X 5 = 50 Marks

- Enumerate different modes of transport across cell membrane describe osmosis and osmotic pressure.
- Describe ionic basis and properties of action potential.
- 5. What are the contents of gastric juice? Give the physiological basis of treatment of peptic ulcer.
- 6. Define deglutition. Describe the stages of deglutition with their regulation.
- Describe juxtaglomerular apparatus along with its functions.
- 8. Describe the functions of proximal convoluted tubule.
- 9. Describe the factors affecting coronary circulation.
- Describe pressure changes in jugular vein and aorta during different phases of cardiac cycle.
- 11. In which forms CO2 is carried in blood? Describe 'chloride shift'.
- Describe the factors affecting diffusion of gases through alveolo-capillary membrane.

SHORT ANSWERS 10 X 2 = 20 Marks

- Give two examples of negative feedback mechanism.
- 14. Erythroblastosis foetalis.
- 15. Salutatory conduction.
- Differentiate between red and pale muscle
- 17. Choleretic and cholagogues.
- Renal splay.
- Windkessel's effect.
- Enlist gastro intestinal hormones.
- 21. Anatomical and physiological dead space.
- 22. After effects of voluntary apnoea and voluntary hyperventilation.

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