Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June/July 2009

Time: 3 Hrs. [Max. Marks: 90]

PHYSIOLOGY - PAPER I (Old Scheme)

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

- 1. Where are the chemoreceptors located? Explain the chemical regulation of respiration
- Discuss the mechanism of concentration of urine

SHORT ESSAY 10 X 5 = 50 Marks

- Explain the mechanism of HCl secretion with the help of a diagram
- 4. List any four properties of cardiac muscle. Explain any one property
- 5. What is respiratory distress syndrome? Explain the mechanism
- 6. Enumerate the factors regulating venous return. Explain the role of any one factor in detail
- 7. Explain the peculiarities of coronary circulation
- 8. Draw the diagram of a cardiac pace maker potential and explain the ionic basis
- 9. Explain the role of enteric nervous system in the gut
- Explain the physiological basis of artificial kidney
- Explain biofeedback mechanism with an example
- What is immunity? Name the types and explain any one in detail

SHORT ANSWERS 10 X 2 = 20 Marks

- Enumerate functions of leucocytes
- Enumerate any four functions of capillary circulation
- Explain the significance of ventilation / perfusion ratio
- What is "Cystometrogram"? Name the physical law.
- 17. What is renal threshold? What is the renal plasma threshold for glucose?
- 18. What is dietary fibre
- 19. List the effects of mis matched blood transfusion
- 20. Explain Donnan's equilibrium
- 21. What is Von Wille Brand's disease?
- List the factors that influence peripheral resistance

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