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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - July 2008

Time: 3 Hrs. [Max. Marks: 100]

PHYSIOLOGY - PAPER I (Revised Scheme)

QP Code: 1053

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY 2 X 9 = 18 Marks

- Classify blood groups and explain how Erythroblastosis fetalis takes place
- Explain the Nervous regulation of respiration

SHORT ESSAY 10 X 5 = 50 Marks

- Explain the conditioned and unconditioned reflexes which increase salivary juice secretion
- 4. Explain defeacation reflex in large intestine
- 5. What is Achlor hydria? What complications does it lead to?
- Explain oxygen transport in the blood
- Explain the acclimatization to high altitudes
- 8. Explain the causes of four Heart sounds during Cardiac cycle. How are these recorded?
- 9. Explain the causes of each wave in jugular venous pulse
- Define cardiac output and explain the factors regulating it
- 11. What is the normal heart rate and explain the nervous regulation of heart rate?
- 12. What is the length and diameter of proximal tubule of Nephron? What the substances reabsorbed in this tubule?

SHORT ANSWERS 16 X 2 = 32 Marks

- 13. What is Haldanes effect and where is it taking place?
- 14. What is Hamburger's phenomenon and where is it taking place?
- 15. What is Achalasia cardia and what is the cause of it?
- 16. What is mega colon? Why does it occur?
- 17. What is cushings reflex and how it restores blood pressure?
- 18. Name the plasma proteins. How much pressure exerted by these proteins in vascular system? What is the importance of this pressure?
- 19. Classify Haemophilia and its causes of each
- 20. Write briefly the importance of blood groups
- 21. What is Thrombocytopenic purpura and what are its complications?
- 22. Which are called counter current multipliers in the Nephron and what are their importance?
- 23. What are the substances synthesized and excreted in the collecting duct of Nephron helping in increasing acidity of urine?
- 24. What are vasa recta and their importance?
- 25. How much is functional residual capacity (F.R.C) in the lungs? What is its importance?
- 26. What is importance of Renin angiotensin mechanism?
- 27. What is the action of Atrial Natriuretic Peptide (ANP) on the kidney?
- 28. How much is the Hydrostatic pressure in the glomerulus of malphigian body and what is it's importance?

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