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M.B.B.S. PHASE - I Degree Examination - June / July 2011

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

- 1. Describe Nervous control of Respiration
- 2. What is Anaemia? Describe different types of anaemia with their physiological causes

SHORT ESSAY 10 X 5 = 50 Marks

- 3. Describe mechanism of Respiration
- 4. Describe the mechanism of hydrochloric acid secretion in the stomach
- 5. Describe the regulation of gastric emptying
- 6. Describe the mechanism of pancreatic secretion
- 7. Describe the generation of impulse in sino-atrial node
- 8. Describe the transport of oxygen in the blood
- 9. What is surfactant? Give its composition and mechanism of action
- 10. Describe Acclimatization to low PO<sub>2</sub> at high altitude
- 11. What are the functions of kidney?
- 12. Explain the role of tubuloglomerular feed back in auto regulation of GFR (Glomerular Filtration Rate)

SHORT ANSWERS 16 X 2 = 32 Marks

- 13. Explain the mechanism of Phagocytosis
- 14. Enumerate the types of RNA and explain their functions
- 15. Give the functions of Helper T cell
- 16. What is Landsteiner's law? For which blood group system is it applicable
- 17. Describe Erythroblastosis fetalis (Haemolytic disease of new born)
- 18. Draw and label the pathway of impulse conduction in heart
- 19. What is Bain bridge reflex? What is it's importance?
- 20. What is periodic breathing?
- 21. What is the importance of cough reflex?
- 22. List lung volumes and capacities
- 23. Give functions of gall bladder
- 24. Explain the role of secretin in regulation of bile secretion
- 25. Enumerate the pecularities of renal circulation
- 26. What is obligatory urine volume?
- 27. Describe Juxta Glomerular apparatus. Give it's importance
- 28. Draw and label parts of a Nephron