

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - January 2009

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. Define blood pressure and explain the factors controlling blood pressure
2. Describe oxygen dissociation curve and explain the factors that cause right shift and left shift of dissociation curve

SHORT ESSAY

10 X 5 = 50 Marks

3. How much is normal blood volume and how is it kept constant?
4. What is extra cellular fluid volume (E.C.F) and how is it measured?
5. Explain endocytosis
6. Explain left intra ventricular pressure changes during cardiac cycle
7. Explain the peculiarities of pulmonary circulation
8. What is mass peristalsis and when does it takes place?
9. Explain Laplace law. What is cystometrogram?
10. What is turbulent flow of blood? Where is it taking place physiologically? How it is measured?
11. Name the inter nodal tracts in the conducting system of heart. Explain the importance of A.V Nodal delay
12. Describe the hormonal regulation of exocrine pancreatic secretion

SHORT ANSWERS

16 X 2 = 32 Marks

13. What is the cause of respiratory distress syndrome in adults and infants?
14. Classify Jaundice and write one cause of each type of Jaundice
15. What are the actions of bile salts in bile juice?
16. Which substances are called cholagogues and what is their importance?
17. What are the actions of Somatostatin?
18. What do you mean by Achalasia gastrica?
19. Name the maturation factors in Erythropoiesis
20. Write briefly on secretion and action of Intrinsic factor of castle
21. Write briefly on pharyngeal phase of deglutition
22. Write the actions of proteolytic enzymes in pancreatic juice
23. What are chylomicrons? How are these produced?
24. What is the importance of Segmentation peristalsis in small intestine?
25. What is Dietary fibre? What is its importance?
26. What is mega karyocyte? Where it is present? Briefly write its function
27. What is bundle of Kent and what E.C.G changes are demonstrated in its presence?