

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - August 2007

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. Classify and briefly describe pulmonary function tests in Common use.
2. Draw and describe a normal lead II Electrocardiogram.

SHORT ESSAY

10 X 5 = 50 Marks

3. Describe the causes and blood gas status of any one type of hypoxia.
4. Draw a labeled diagram showing FEV-1 in normal and restrictive conditions.
5. Describe Starling forces affecting fluid exchange at the capillary level.
6. Draw and describe pacemaker potential.
7. Briefly describe the stages of erythropoiesis.
8. Compare the RBC from patients with B-12 and iron deficiency stages.
9. Briefly describe the function of T lymphocytes.
10. Describe the process and significance of clot retraction.
11. Describe the regulation of secretion of gastric juice.
12. Describe the effect of any two hormones on stomach.

SHORT ANSWERS

16 X 2 = 32 Marks

13. Describe the functions of bile.
14. Briefly describe the process of deglutition.
15. Write a brief note on juxtaglomerular apparatus.
16. Briefly describe how glucose is reabsorbed by the nephron.
17. Describe the effect of dynamic exercise on muscle blood flow.
18. Draw a labeled diagram of arterial pulse.
19. What is the effect of sympathetic stimulation on stomach?
20. What is gastrocolic reflex?
21. What is the effect of fatty meals on stomach?
22. What is the functional significance of rich blood flow through the renal cortex?
23. What happens to the tubular fluid in thick ascending segment?
24. Define clearance. What is its value for Inulin?
25. Draw a labeled diagram of pressure volume curve of urinary bladder.
26. What is the ph value of arterial and venous blood? Name one physiological and one abnormal condition producing alkalosis.
27. What is the normal value of extracellular fluid volume? Name one substance used to measure it.
28. Motor unit.

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