

Rajiv Gandhi University of Health Sciences

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

1. Give the composition of gastric secretion. Describe various phases and regulation of gastric secretion
2. Enumerate coagulation factors. Describe the intrinsic and extrinsic mechanism of coagulation

SHORT ESSAY**10 X 5 = 50 Marks**

3. Describe the different phases of deglutition
4. Give the composition, synthesis and functions of bile salts
5. Describe the mechanism of humoral immunity
6. Enumerate the properties of cardiac muscle. Explain importance of the long refractory period
7. Define Edema. Describe mechanism of Edema
8. Enumerate renal function tests. How is renal blood flow measured?
9. Explain Hering Breuer inflation reflex. What is its importance?
10. Explain non respiratory functions of lungs
11. Enumerate the causes of metabolic acidosis. How is it corrected?
12. Describe the mechanism of reabsorption of glucose in renal tubule. Give normal values of renal threshold and tubular transport maximum for glucose

SHORT ANSWERS**16 X 2 = 32 Marks**

13. Enumerate various cell organelles. Give their functions
14. What is Homeostatis? Describe positive feed back mechanism with suitable examples
15. Enumerate the stages of Erythropoiesis. Describe the fate of RBC
16. Describe the various functions of plasma proteins
17. Describe Hemophilla
18. Explain the functions of Windkessel vessels
19. Explain the causes of heart sounds
20. Define Hypoxia. Explain histotoxic hypoxia
21. Draw and label different lung volumes and capacities
22. Explain factors affecting airway resistance
23. What are the functions of large intestine?
24. Describe regulation of salivary secretion
25. Draw and label innervation of urinary bladder
26. Explain urea clearance test
27. Explain Bicarbonate reabsorption in proximal tubule
28. Explain functions of gastric mucosa
