



Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - I) Degree Examination - DEC-2014

Time: Three Hours

Max. Marks: 100 Marks

PHYSIOLOGY – Paper I (Revised Scheme)

Q.P. CODE: 1053

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

2 x 9 = 18 Marks

1. Discuss short-term regulation of blood pressure.
2. Describe how expansion of thorax occurs during normal respiration.

SHORT ESSAYS

10 x 5 = 50 Marks

3. Functions of macrophages
4. Significance of Rh factor
5. Digestive functions of pancreatic juice
6. Describe the actions of bile.
7. Regulation of salivary secretion
8. Describe the dynamics of glomerular filtration.
9. Conduction of impulse in human heart
10. Mean electrical axis of QRS vector
11. Timed vital capacity
12. Compare and contrast active transport with facilitated diffusion.

SHORT ANSWERS

16 x 2 = 32 Marks

13. Enlist four factors required for Erythropoiesis.
14. Enumerate four changes occurring during second stage of deglutition.
15. What is role of ADH in urine formation?
16. What is the cause of medullary hyper-osmolarity in kidney?
17. List the factors affecting airway resistance.
18. Types of blood vessels and their significance
19. Ventilation perfusion ratio – what is it? Give its normal value.
20. Functions of conducting zone of respiratory tree
21. List two causes of increased bleeding time.
22. B₁₂ deficiency anaemia – Give two salient features
23. Differentiate Reticulocyte from erythrocyte.
24. What is Dyspneic index?
25. Enumerate four factors affecting tissue fluid formation.
26. Draw and label glomerular membrane.
27. List four actions of CCK-PZ.
28. What is Cushing's reflex?

