

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - I) Degree Examination - JULY 2015

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. Define cardiac output and cardiac index. Give their normal values. Describe the factors, which regulate cardiac output and mention any one method of its determination.
2. Describe the different phases of gastric juice secretion. How they are regulated?

SHORT ESSAYS

10 x 5 = 50 Marks

3. Classify hypoxia and explain the causes.
4. Explain the role of skin in body temperature regulation.
5. Compliance in lungs
6. Composition and functions of bile
7. Anticoagulants and their mode of action
8. What are the reactions of Mismatched blood transfusion?
9. Describe the functions of Reticulo-endothelial system.
10. Describe the structure and functions of Juxta-glomerular apparatus.
11. Functions of colon
12. Glucose reabsorption in the nephron

SHORT ANSWERS

16 x 2 = 32 Marks

13. What is hemophilia?
14. What is transferrin?
15. List two functions of 'B' lymphocytes
16. Define MCH and give its normal value.
17. What is the significance of Intercalated discs in cardiac muscle?
18. What is the significance of Refractory period in heart muscle?
19. Name the Baroreceptors regulating blood pressure.
20. What is axon reflex?
21. List two factors affecting capillary fluid shift.
22. What is Reynold's number? What is its significance?
23. What are the functions of Pneumotaxic center?
24. What are the types of Dead space? Give their normal values.
25. Define Vital capacity.
26. What is Hering – Breuer reflex?
27. Define dyspnoea and apnea.
28. What is achalasia cardia?
