

Rajiv Gandhi University of Health Sciences, Karnataka

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

Time : 3 Hrs.

[Max. Marks: 100]

PHYSIOLOGY - PAPER I (Revised Scheme 2)

QP Code : 1077

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Draw the scheme of coagulation cascade and explain the salient features of this system. Add a note on commonly occurring bleeding disorders
2. Explain the cardiovascular adjustments following
 - a) moderate exercise
 - b) Haemorrhage
 Add a note on 'Irreversible shock'

SHORT ESSAY

10 X 5 = 50 Marks

3. Describe conducting system of the heart
4. Regulation of cerebral circulation
5. Functions of upper respiratory passage
6. Factors affecting gaseous diffusion in lungs
7. Oxygen-dissociation curve
8. Functions of stomach
9. Proteolytic enzymes of pancreas
10. Functions of bile
11. Sodium reabsorption in renal tubules
12. Determination of glomerular filtration rate (GFR)

SHORT ANSWERS

10 X 3 = 30 Marks

13. What is 'Vagal tone'? What determines it?
14. What is 'Angina Pectoris'? Explain the basis.
15. Give the volume of carbondioxide transported in arterial and venous blood. What is the significance of arterial PCO_2 ?
16. Name the Agglutinogens and agglutinins present in blood in a person of O +ve group. What is "Bombay Blood Group"?
17. Explain the steps in 'Phagocytosis'
18. Give the source and actions of "Erythropoietin". How is its secretion regulated?
19. Write briefly on 'Erythrocyte Sedimentation Rate'
20. List the stimulants of gastrin secretion.
21. Draw a graph to illustrate pressure changes within urinary bladder as it is gradually filled
22. Explain functions of collecting ducts of nephrons

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