

Rajiv Gandhi University of Health Sciences, Karnataka

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

Time: Three Hours

Max. Marks: 100 Marks

PHYSIOLOGY – Paper II (Revised Scheme)

Q.P. CODE: 1054

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

2 x 9 = 18 Marks

1. Describe the physiological actions of insulin on carbohydrate metabolism. List the features of diabetes mellitus.
2. Describe the internal connections and functions of cerebellum.

SHORT ESSAYS

10 x 5 = 50 Marks

3. Describe the physiological actions of vitamin D.
4. Describe the maternal changes in cardiovascular system during pregnancy.
5. Describe the blood-testis barrier.
6. Define EPSP and IPSP. Describe their features.
7. Describe the mechanisms and features of REM sleep.
8. Describe the mechanism of decerebrate rigidity.
9. Describe the genesis of photoreceptor potential in rods.
10. Describe the pathway of taste.
11. Explain the ionic basis of different phases of nerve action potential.
12. Explain the strength duration curve.

SHORT ANSWERS

16 x 2 = 32 Marks

13. Explain the aldosterone escape phenomenon.
14. Explain the cause of tachycardia in hyperthyroidism.
15. List the features of a pituitary dwarf.
16. With an example, explain Paracrine signaling of hormone.
17. Explain the physiological basis of lactational amenorrhea.
18. List four functions of oestrogen.
19. List four properties of a synapse.
20. List the features of Kluver-Bucy syndrome.
21. What are types of deafness? Give an example for each.
22. Name the receptors of vision. Give their functions.
23. What is Saltatory conduction? What is its significance?
24. Explain the physiological basis of a drug for treatment of myasthenia gravis.
25. List the differences between isotonic and isometric contraction.
26. What is a motor unit?
27. List four changes seen on exposure to cold environment.
28. Write four functions of skin.
