



# Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - I) Degree Examination - JULY 2015

**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 connections and functions of cerebellum. Add a note on clinical features seen in cerebellar dysfunction.
2. Describe the molecular basis of muscular contraction in skeletal muscle. Add a note on features seen in fatigue of a muscle.

### **SHORT ESSAYS**

**10 x 5 = 50 Marks**

3. Describe the clinical features of Myxedema.
4. Causes and features of Tetany
5. ADH actions and its regulation
6. Referred pain
7. Reciprocal innervation and its functional importance
8. Stretch reflex
9. Describe the actions of testosterone at puberty.
10. Describe the ovarian changes during a menstrual cycle.
11. How is body temperature defended when a person is exposed to very cold environment?
12. Draw an organ of Corti and describe the functioning of hair cell.

### **SHORT ANSWERS**

**16 x 2 = 32 Marks**

13. Name the catecholamines and give two actions.
14. List the signs of the upper motor neuron lesion.
15. Enlist the hormones required for lactation.
16. Cause and effect of LH surge
17. Endocrine basis of use of oral contraceptives in female
18. Myelination and its significance
19. What is accommodation reflex?
20. Circulation of aqueous humor and its significance
21. Importance of fovea centralis
22. Draw and label a smell pathway.
23. Draw and label the transverse section of cochlea.
24. Compare the effects of sympathetic and parasympathetic stimulation on pupil.
25. List any two actions of Glucagon.
26. List four features of Cushing's syndrome.
27. Write the two differences between A and C type of nerve fibre.
28. Define motor unit.

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