

# Rajiv Gandhi University of Health Sciences, Karnataka

## First Phase MBBS Degree Examination – OCT-2017

**Time: Three Hours****Max. Marks: 100 Marks**

### **PHYSIOLOGY-PAPER II (RS2 & RS3 SCHEME) QP Code: 1078**

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

**LONG ESSAYS****2 x 10 = 20 Marks**

1. Classify receptors. Explain their properties.
2. Describe the physiological actions & regulation of secretion of aldosterone.

**SHORT ESSAYS****10 x 5 = 50 Marks**

3. Functions of semicircular canals.
4. Describe the effects of cerebellar lesion.
5. Explain the effect of lesion of a) dorsal nerve root, b).upper motor neuron on muscle tone
6. Give the source, target organs and actions of 'Follicle Stimulating Hormone'
7. Functions of middle ear
8. How the speech of a person is affected with a lesion in 'Wernicke's area'
9. Explain the electrical changes and ionic basis of different phases of a nerve action potential.
10. Regulation of thyroid hormones
11. Importance of maintaining normal intraocular pressure.
12. Explain the regulation of secretion of Anti diuretic hormone

**SHORT ANSWERS****10 x 3 = 30 Marks**

13. Explain the image formation & the method of its correction in hypermetropia with the help of a diagram.
14. Enumerate the factors affecting spermatogenesis.
15. Indicators of ovulation
16. Name the primary taste sensations. Explain the mechanism of perception of any one taste sensation.
17. Functions of Sertoli cells
18. Electromyogram (EMG)
19. Eccrine sweat glands.
20. Differences between skeletal muscle and smooth muscle
21. Dwarfism
22. Motor homunculus

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