

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - OCT-2017

Time: Three Hours

Max. Marks: 100 Marks

Physiology – I (RS2 & RS3)

Q.P. CODE: 1077

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Describe in detail the digestion and absorption of fats. Add a note on Steatorrhea.
2. Describe the leads of ECG, various waves, intervals and segments of a normal ECG

SHORT ESSAYS

10 x 5 = 50 Marks

3. Factors affecting Venous return
4. Functions of Gastric juice secretion
5. Mismatched Blood transfusion reactions
6. Functions of Reticulo – endothelial system
7. Functions of T-lymphocytes
8. Counter current multiplier system in kidney
9. Cystometrogram
10. Lung compliance
11. Locations and functions of centres of respiration
12. Explain dyspnoea and apnoea with examples.

SHORT ANSWERS

10 x 3 = 30 Marks

13. What is the physiological basis of Autorhythmicity?
14. Define Frank-Starling's law.
15. What is the normal platelet count? Give two functions of platelets.
16. List the functions of Neutrophils
17. What are Chylomicrons? What are their functions?
18. Secondary active transport
19. Name the buffers of renal tubules.
20. Sinus arrhythmia
21. List three functions of saliva.
22. What is Ventilation : Perfusion ratio (VA/Q)? Give its normal value.

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
