

PHYSIOLOGY – Paper II**QP Code: 2528****(QP contains two pages)**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

(Note - Answer Section-A and Section-B in separate answer booklets)

Section - A

Multiple Choice Questions**10 X 1 = 10 Marks**

1. All of the following hormones are secreted by adrenal cortex except
 - a. Estriol
 - b. Cortisol
 - c. Corticosterone
 - d. Aldosterone
2. The main mode of action of sequential contraceptive pill is
 - a. Preventing ovulation
 - b. Preventing embedding of fertilized ovum
 - c. Preventing fertilization
 - d. Causing abortion
3. The precentral gyrus in humans is located in the
 - a. Cerebellum
 - b. Occipital lobe
 - c. Parietal lobe
 - d. Frontal lobe
4. The generator potential
 - a. Is a graded response
 - b. Is not self propagated
 - c. Does not exhibit overshoot
 - d. All of the above
5. Visceral afferents are present in
 - a. Vagus nerves
 - b. Splanchnic nerves
 - c. Dorsal roots of spinal nerves
 - d. All of the above
6. The followings are the roof nuclei of the cerebellum except
 - a. Fastigius
 - b. Globosus
 - c. Red nucleus
 - d. Emboliformis
 - e. Dentate
7. The cells of the testes which produce testosterone are
 - a. Sertoli cells
 - b. Leydig cells
 - c. Spermatogonia
 - d. Germinal epithelium
8. Direct control of insulin occurs through
 - a. Sympathetic innervations to the pancreas
 - b. Blood glucose
 - c. Pituitary gland
 - d. Parasympathetic nerves supplying pancreas
9. Which of the following records of electrical activity gives a measure of eye movements?
 - a. Electroretinogram
 - b. Electroencephalogram
 - c. Electro-oculogram
 - d. Electrocochleogram

10. Light with the longest wavelength is
- Violet
 - Red
 - Blue
 - Yellow

Section B

LONG ESSAYS (Answer any two)

2 X 10 = 20 Marks

- Describe the hormones of the anterior pituitary and explain in detail the functions and disorders of Growth hormone.
- Describe the origin, course, termination of pyramidal tract. Add a note on Hemiplegia.
- Describe the endometrial changes in menstrual cycle.

SHORT ESSAYS (Answer any ten)

10 X 5 = 50 Marks

- Describe Spermatogenesis.
- Draw a labeled diagram of a sarcomere and indicate the different bands. Explain the role of sarcoplasmic triad.
- Explain the functions of Parathormone.
- Explain the steps of Neuromuscular junction transmission.
- Describe milk ejection reflex.
- What are traveling waves of cochlea? What is their role in hearing?
- Discuss extra pyramidal tracts and their function.
- Write briefly on ovulation.
- Write briefly on difference between Upper motor lesion and Lower motor lesion.
- Explain the changes in eye during accommodation to near object.
- Explain structure and types of smooth muscle.
- Describe olfactory pathway with neat diagram.

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