

I MBBS Physiology Paper 2

Time: 3 hours

Max

Marks: 50

Date: 06-08-2015

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

1. Explain in detail: (any two) (10)
 - a. Explain puberty onset, stages and describe delayed puberty and precocious puberty.
 - b. Give details of other organs with endocrine functions and the hormones produce by them.
 - c. Name the anterior pituitary hormones. Describe in detail of somatostatin level related to growth
 2. A. Write brief notes on (any two) (6)
 - a. Renin - Angiotensin mechanism (A.634) (8.261)
 - b. Automatic bladder (A.344) (B.446)
 - c. Vasopressin hormone
 - B. Write brief on (any one) (3)
 - a. Astigmatism (A.1041)
 - b. Taste buds (A.1060) (8.947)
 3. Give brief on (any two) (6)
 - a. Sertoli cells (A.476) (8.637)
 - b. Accommodation (A.995) (8.894)
-

c. Olfaction

Section 2

1. Explain in detail (any two) (10)
 - a. Muscle spindle and muscle stretch reflex (A.945) (8.822)
 - b. Structure and functions of cerebellum (A.870+872+874)
 - c. Hypothalamus (A.857) (8.739)
2. A. Write briefly on (any two) (6)
 - a. Disorders of Basal Ganglia (A198) (8 729)
 - b. Formation flow and absorption of cerebro-spinal fluid (CS (A.984) (8.773)
 - c. EEG (Electro-encephalography) (A.929) (8.860)

B. Write briefly on (any one) (3)

 - a. Properties of synapses (A.817) (B.700)
 - b. Analgesic system of body
3. Answer in 2-3 sentences (6)
 - a. Pain and temperature sense is carried by the sensory tract.
 - b. Name two anti-thyroid drugs.
 - c. Give name of one substance used to measure GFR.
 - d. Explain function of Wernicke's area.
 - e. Astigmatism can be corrected by which type of lens?
 - f. Define glaucoma. (A.1010)
 - g. Brodmann's area number for primary auditory cortex is
 - h. Give two examples of barrier contraception.
 - i. Name the hormone which will decrease the extra-cellular fluid calcium level.
 - j. What is cause of Addison's disease? (A.454) (8.595)
