

Date: 08-07-2015

0715 E287

First Year MBBS Examination

I MBBS Physiology Paper 2

Time: 3 hours

Max Marks: 50

Instructions: 1. Answer to the points. 2. Use separate answer books for each section. 3. Draw diagrams wherever necessary.

Section 1

1. Write briefly on (any two): (10)

- a. Describe the role of hormones influencing serum calcium level. What is tetany?(423)(563)
- b. Describe the transmission of sound wave in the cochlea. What are the different types of deafness?
- c. Mechanism of HCL secretion in the stomach.
Add a note on peptic ulcer.(235) (466)

2. Write briefly on (any two): (6)

- a. Metabolic actions of growth hormone(391)(535)
- b. Mechanism of hormone action
- c. Name the hormones of adrenal cortex. Describe

the anti-inflammatory effects of glucocorticoids.
(429)

3. Write briefly on (any on: (3)

- a. Functions of testosterone (480)(640)
- b. Describe the hormonal regulation of human menstrual cycle.

4. Write briefly on (any on: (6)

- a. Deglutition reflex(270)(461)
- b. Functions of bile
- c. Balanced diet

Section 2

5. Write briefly on (any two): (10)

- a. Draw well labeled diagram of touch pathways.
What is stereognosis?
- b. Functions of thalamus (851)
- c. Describe synaptic transmission

6. Write briefly on (any two): (6)

- a. Trace the pathway for taste sensation
- b. Accommodation for near vision
- c. Describe the mechanism of colour vision

7. Write briefly on (any one): (3)

- a. Sarco-tubular system (174)
- b. Excitation contraction coupling (194)(73,179)

8. Write answers in two or two sentences (any six):
(6)

- a. Menarche and menopause
- b. Cretinism (412)(558)
- c. REM sleep (932)
- d. Lower motor neuron
- e. Functions of cerebellum (870+872+874)
- f. Secretin (283)(485)
- g. Otolith organ (926)
- h. Cataract

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