

The West Bengal University of Health Sciences
MBBS 1st Professional (Supplementary) Examination 2014

Subject : Physiology
Paper : II

Full Marks: 50
Time : 2 ½ hours

Use separate answer script for each group
Attempt all questions. The figures in the margin indicate full marks

Group - A

1. ✓ What are the hormones secreted by the thyroid gland? Describe the functions of thyroid hormone. Write features of hyper secretion of thyroid hormone. 3+4+5

or

- b) What is referred pain? Describe with diagram the neural pathway for pain sensation. Explain how transmission and perception of pain are inhibited? 2+5+5

Group - B

2. Answer *any two* of the following :

- a) Describe the endocrinal control of ovulation. What are the tests for ovulation? 5+2
- ✓ b) What is glomerular filtration rate? Describe the factors that affect glomerular filtration rate. 1+6
- ✓ c) What is phototransduction? Describe the steps of visual cycle in a sequential manner. 1+6

Group - C

3. Write short notes on *any four* of the following : 4 x 3

- a) Taste buds.
- ✓ b) Conductive deafness.
- ✓ c) LH surge.
- ✓ d) Gate Control theory.
- ✓ e) Acidification of urine.

Group - D

- Give the physiological explanation of the following : 4 x 3

- a) Dissociated anaesthesia is found in syringomyelia.
- ✓ b) Vasa recta is essential for concentrating urine.
- ✓ c) It is extremely difficult to learn new things after hippocampal lesion.
- ✓ d) REM sleep may be called as paradoxical sleep.