

MAY 2014

P/ID 17909/PMSJ

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Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

Each answer should not exceed 50 words.

1. Classify Synapse.
2. Functions of endoplasmic reticulum.
3. List the functions of spleen.
4. Functions of Cerebrospinal fluid.
5. What are tight junctions? Give their function.
6. List the peculiarities of Renal Blood Flow.
7. Pleural fluid and its functions.
8. List the contraceptive methods.
9. Name the ascending pathways and sensations carried by them.
10. Give the functions of ADH.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

Each answer should not exceed 250 words.

11. (a) Briefly explain the structure and functions of placenta.

Or

- (b) Briefly explain the structure of cartilage.

12. (a) Describe the functional areas of the brain stem with their brief anatomy.

Or

- (b) Give a brief description of the inguinal canal.

13. (a) Describe the mechanics of Respiration.

Or

- (b) Explain active transport mechanism and its importance.

14. (a) Give the various areas of the cerebral cortex and their functions.

Or

- (b) Define GFR and explain its mechanism of formation.

15. (a) Define menstrual cycle and explain its phases.

Or

- (b) List out the various causes of infertility.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

Each answer should not exceed 500 words.

16. (a) Explain the fluid mosaic model of cell membrane.

Or

- (b) Classify joints and explain any one in detail.

17. (a) Describe the anatomical peculiarities of kidney in relation to their function.

Or

- (b) Explain the pathophysiology of Edema.

18. (a) Describe chloride shift in detail.

Or

- (b) Explain the various mechanisms involved in oxygen transport.

19. (a) Describe the autonomic nervous system and its role in vegetative functions of the body.

Or

- (b) “Hypothalamus is the master gland” – justify.

20. (a) Give the anatomy of Thyroid gland. Explain the actions of Thyroxine.

Or

- (b) Testosterone is a youth hormone – explain.
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