

MAY 2012

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 various types of muscles.
2. Name the perineal muscles.
3. Give the meninges of the brain and their function.
4. Enumerate the intercellular communications and their functions.
5. Heart valves and their functions.
6. Define GFR and give the normal values.
7. Surfactant.
8. Classify various types of synapse.
9. List the hormones of pituitary.
10. List the sex hormones and give the functions of any one.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

Each answer should not exceed 250 words.

11. (a) Briefly describe the process of development of limb buds.

Or

- (b) Define Hernia. Explain the major sites of hernia development with reasons.

12. (a) Describe the basic anatomy of spinal cord.

Or

- (b) Briefly give the anatomy, connections and functions of thalamus.

13. (a) Classify transport mechanism. Explain passive transport in detail.

Or

- (b) Explain tubulo glomerular feedback mechanism.

14. (a) Explain the process of gas exchange and the basic principles involved.

Or

- (b) Briefly describe the changes in respiratory system during various types of exercise.

15. (a) Define sleep. Explain the various stages of sleep.

Or

- (b) Describe the anatomy of breast. Explain the role of hormones in lactation.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

16. (a) Describe the structure and functions of stomach.

Or

- (b) Explain the process of development of abdominal organs.

17. (a) Nucleic acids are the genetic material. Explain.

Or

- (b) Describe the blood supply to brain add a note on stroke.

18. (a) List the hormones of posterior pituitary gland and explain their action.

Or

- (b) Define spermatogenesis. Explain the process and hormones involved in this process.

19. (a) Describe the mechanism of regulation of respiration.

Or

(b) Explain the detail carbon dioxide transport.

20. (a) Describe the anatomy and functions of cerebellum.

Or

(b) Explain the anatomy of autonomic nervous system. Add a note on parasympathetic control of visceral organs.

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