

Paper I — RADIOGRAPHIC ANATOMY AND
PHYSIOLOGY

Time : Three hours

Maximum : 100 marks

SECTION A — (20 × 1 = 20 marks)

Answer ALL questions.

Choose the correct answer:

1. Freely movable joints are
(a) Synarthroses (b) Diarthroses
(c) Amphiarthroses (d) All
2. Connective tissues are divided into _____ types.
(a) two (b) three
(c) four (d) five
3. The building block of life is _____.
(a) Bone (b) Blood
(c) Brain (d) Cell

4. The normal pH value of the blood is _____.
(a) 6.4 (b) 7.4
(c) 5.4 (d) 3.4
5. The residual volume (RV) of the lungs is about _____.
(a) 1200 ml (b) 1100 ml
(c) 1400 ml (d) 1600 ml

Fill in the blanks:

6. The functional units of the kidneys are known as _____.
7. The stomach is divided into _____, _____, _____.
8. Thyroid glands get _____ mineral from the blood.
9. The function of the medulla oblongate in the brain is to control _____ and _____.
10. The uterus is divided into _____ parts.

Match the following:

- | | | |
|--------------------------|-----|---|
| 11. Parotid glands | (a) | longest part of the small intestine |
| 12. Submandibular glands | (b) | largest gland on each side of the face |
| 13. Sublingual glands | (c) | glands that lie on both side of the face below jaw |
| 14. Oesophagus | (d) | smallest pair of salivary glands on side of tongue. |
| 15. Ilium | (e) | narrow muscular tube for food passageway. |

Answer in a word / sentence.

16. What is a mandible?
17. What are true ribs?
18. Define basophils.
19. What is the function of bile salts present in the fats?
20. What is a reflex action?

SECTION B — (5 × 6 = 30 marks)

Answer ALL questions.

21. (a) Explain the three types of cartilage.
Or
(b) Write a note on the fibula.
22. (a) Describe about the shoulder joint and the elbow joint.

Or

- (b) Write a note on the functions of the heart.
23. (a) Explain the main function of lungs.

Or

- (b) Explain the structure and the function of the kidney.
24. (a) Describe the function of large intestine.

Or

- (b) Write notes on anterior pituitary and posterior pituitary.

25. (a) Describe about the reflex action and its various levels of reflex action.

Or

- (b) With a diagram explain about the structure and the functions of the ovaries.

SECTION C — (5 × 10 = 50 marks)

Answer ALL questions.

26. (a) With a diagram explain the various anatomical positions of the human body.

Or

- (b) With a diagram explain about the bones of the skull.

27. (a) With a diagram explain about the hip joint and knee joint.

Or

- (b) Explain the anatomy of the heart.

28. (a) Explain in detail about the blood supply of the lungs.

Or

- (b) Explain in detail about the various parts of the urinary system.

29. (a) With a diagram explain about the salivary glands.

Or

- (b) Write a detailed description about the physiology of digestion of food.

30. (a) With a diagram explain in detail about the parts of the central nervous system.

Or

- (b) Write an essay about red blood cells.
-

