

(6 pages)

**1198/RT1**

**OCTOBER 2010**

**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. There are \_\_\_\_\_ type of bones in the human body  
(a) six (b) five  
(c) four (d) three.
2. Neurons are the basic unit of \_\_\_\_\_ tissue  
(a) nervous (b) elastic  
(c) adipose (d) areolar.
3. The ribs are comprised of \_\_\_\_\_ bones  
(a) 26 (b) 22  
(c) 24 (d) 28.

4. The pH of gastric juice is about of the order of  
(a) 6.35 to 6.85 (b) 0.9 to 1.5  
(c) 2.5 to 6.5 (d) Less than 1.
5. The blood circulation is classified into \_\_\_\_\_ categories  
(a) four (b) six  
(c) three (d) five.

Fill in the blanks :

6. The pulmonary veins carry \_\_\_\_\_ blood from \_\_\_\_\_ to the \_\_\_\_\_
7. Micturition is the process of passing \_\_\_\_\_ from the \_\_\_\_\_ in our body.
8. Chyme is the \_\_\_\_\_ stomach and it enters into the \_\_\_\_\_ from \_\_\_\_\_
9. The three main glucocorticoids are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_
10. The average human brain weight is around \_\_\_\_\_ Kg.

Match the following:

- |                                    |                                           |
|------------------------------------|-------------------------------------------|
| 11. Anterior surface of liver      | (a) Under surface of diaphragm            |
| 12. Superior surface of liver      | (b) Smooth and curve to fit the diaphragm |
| 13. Posterior surface of liver     | (c) Facing the abdominal viscera          |
| 14. Right lateral surface of liver | (d) Irregular in outline                  |
| 15. Inferior surface of liver      | (e) right side of the liver.              |

Answer in a word/sentence.

16. What are floating ribs?
17. Define menocytes.
18. Write about inspiratory reserve volume of the lungs (IRV).
19. What is a peritoneal coat in the stomach?
20. What is the main function of ADH?

SECTION B — (5 × 6 = 30 marks)

Answer ALL questions.

21. (a) List out the function of tissues.  
Or  
(b) Write a note on the four arches present in the foot.
22. (a) Write notes on freely movable joints.  
Or  
(b) Write a note on the blood pressure and its measurement using the meter.
23. (a) List out the functions of respiration.  
Or  
(b) Write about the physiology of micturition.
24. (a) List out the function of the small intestine.  
Or  
(b) Explain about the thymus gland and its functions.
25. (a) Describe about the cranial nervous system.  
Or  
(b) With a diagram explain the parts of the uterus.

SECTION C — (5 × 10 = 50 marks)

Answer ALL questions.

26. (a) With a diagram explain about the three types of muscle.

Or

- (b) Explain the function of pelvic girdle and the difference between male and female pelvis.

27. (a) Write a note on the joints of the lower limb.

Or

- (b) Explain in detail about the blood vessels.

28. (a) Describe briefly the various parts of the respiratory systems.

Or

- (b) Give a detailed account of nephrons.

29. (a) With a diagram explain the parts of the liver, its structure and its functions.

Or

- (b) With a diagram explain in detail about the pancreas (Islets of langerhans).

30. (a) List and explain the bones of face.

Or

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

