

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

**Pharm.D (Sem.-1)**  
**HUMAN ANATOMY AND PHYSIOLOGY**  
**Subject Code : 1.1**  
**Paper ID : [D0164]**

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

**SECTION-A**

- Q1. What is the difference between plasma and serum?
- Q2. What do you understand by congestive heart failure?
- Q3. Draw and label freely movable joint.
- Q4. What are the functions of mitochondria and ribosomes?
- Q5. What are enzymes responsible for digestion of carbohydrates ?
- Q6. What do you understand by tidal volume and dead air space?
- Q7. What are the hormones released from small intestine?

**SECTION-B**

- Q8. Write a note on oogenesis.
- Q9. What are the functions of mid brain and cerebellum?
- Q10. Explain how micturition is involuntary as well as voluntary process.

- Q11. Write a note on hormones released from adrenal cortex.
- Q12. Write the role of bile in fat digestion and absorption.
- Q13. Explain the different steps involved in blood clotting.
- Q14. Draw and label human eye.
- Q15. How is oxygen transported in blood?

### SECTION-C

- Q16. What is cardiac cycle? Explain the development of heart sounds.
- Q17. Write the functions of estrogen and progesterone. Explain the process of menstruation.
- Q18. Write a note on different cranial nerves along with their functions.