

Total No. of Questions : 6]

SEAT No. :

**P1974**

**[5145]-204**

[Total No. of Pages :2

**First Year B. Pharmacy**

**1.2.4. HUMAN ANATOMY PHYSIOLOGY - II  
(2013 Pattern) (Semester-II)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Neat labeled diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*

**SECTION-I**

**Q1)** Draw a neat labeled diagram of respiratory system. Explain mechanism of breathing and exchange of gases at lung and tissue level. **[10]**

OR

Classify nervous system. Write in detail anatomy and functions of brain stem.

**Q2)** Answer the following (Any five) **[15]**

- a) Draw a neat labeled diagram of cross section of Spinal Cord.
- b) Discuss limbic system in brief.
- c) Explain the structure of lungs.
- d) Describe anatomy of taste buds.
- e) Write a note on interior of eyeball.
- f) Explain thalamic nuclei.
- g) Define the terms tidal volume, inspiratory reserve volume and vital capacity

**Q3)** Write short note on (Any two) **[10]**

- a) Reflex arc.
- b) Process of neurotransmission.
- c) Thermoregulation.
- d) Physiology of hearing.

*P.T.O.*

## SECTION-II

**Q4)** Explain in detail physiology of urine formation. **[10]**

OR

Explain synthesis, storage, release and function of thyroid hormones.

**Q5)** Answer the following(Any five) **[15]**

- a) Draw a neat labelled diagram of internal structure of kidney.
- b) Explain Oogenesis.
- c) Enlist various hormones secreted by anterior pituitary gland with their functions.
- d) Write a note on Anti-Diuretic Hormone.
- e) Write a note on Semen.
- f) Write a note on Histology of a renal corpuscle.
- g) Explain structure of sperm with a neat labelled diagram.

**Q6)** Write short note on (Any two) **[10]**

- a) Adrenal glands
- b) Physiology of lactation
- c) Nephron
- d) Spermatogenesis

