

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.

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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

