

UKA TARSADIA UNIVERSITY

B. Pharm. (2nd Semester)

Time : **10 am to 1 pm**

Duration : 3 Hours

Subject :030020203 - Human Anatomy Physiology - II

Date : **23/05/2014**

Max. Marks: 70.

Instructions:

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks allocated to that question.
5. Draw diagrams/figures whenever necessary.

SECTION - 1

Q-1 (A) Do as directed.

[07]

- I) What is electroencephalograph?
- II) Enlist the functions of hypothalamus.
- III) Define neurotransmitter and give examples.
- IV) Define neuroglia.
- V) Differentiate between cerebrum and cerebellum.
- VI) Enlist secretions which occurs from Adrenal medulla.
- VII) What is neuro degenerative disorders? Give examples.

Q-1 (B) Answer the following in brief. (Any 4)

[08]

- I) Differentiate between SNS and ANS.
- II) Write mechanism of action of Insulin.
- III) Draw a labeled diagram of spinal cord.
- IV) Define (a) Epilepsy and (b) Brain tumor.
- V) Classify different types of neurons.
- VI) Give the functions of glucocorticoids.

Q-2 Answer the following.

[10]

- A) Describe the formation, storage and release of thyroid hormones.

OR

- A) Draw a labeled diagram of Human Brain. Describe medulla oblongata.

- B) Describe the structure and function of Mid Brain. Write a note on Reticular Activating System.

OR

- B) Enumerate hormones of pituitary gland. Write a brief note on anterior pituitary gland hormones.

Q-3 Answer the following in detail. (Any 2)

[10]

- A) Describe the physiology of sympathetic nervous system.
- B) Write a note on cerebro-spinal fluid (CSF).
- C) Enumerate the hormones of adrenal gland and explain their physiological role in the body.

SECTION - 2

Q-4 (A) Do as directed.

[07]

- I) Enlist normal constituents of urine.
- II) What is oogenesis?
- III) Which cell in lungs secrete surfactant?

- IV) Enlist diseases of urinary system.
- V) Enlist birth control methods.
- VI) Which nerve is responsible for respiration?
- VII) Define asthma and COPD.

Q-4 (B) Answer the following in brief. (Any 4)

[08]

- I) Draw labeled diagram of kidney and enlist its functions.
- II) Enlist organs of respiratory system.
- III) Enlist the hormone responsible for water retention.
- IV) Draw a labeled diagram of lungs. Describe its function.
- V) Give the functions of ovary.
- VI) Draw labeled diagram of retina.

Q-5 Answer the following.

[10]

- A) Describe physiology of urine formation.

OR

- A) Draw and label male reproductive system. Explain the process of spermatogenesis.
- B) Write a note on lung volumes and capacities.

OR

- B) Describe physiology of Hearing with suitable diagram.

Q-6 Answer the following in detail. (Any 2)

[10]

- A) Write a note on pulmonary ventilation.
- B) Describe the physiology of vision.
- C) Discuss physiology of menstruation cycle.