

UKA TARSADIA UNIVERSITY

B. Pharm. (2nd Semester)

Subject :030020203-Human Anatomy & Physiology II

Time : 2:30 pm to 5:30 pm

Duration : 3 Hours

Date : 02/12/2013

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) Define nervous system.
- II) What are hormones?
- III) What is the role of cholinesterase enzyme in parasympathetic neurotransmission
- IV) What do you mean by neurotransmitter?
- V) Define diabetes mellitus.
- VI) Define efferent or motor nerves
- VII) What is Parkinsonism?

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

[08]

- I) Discuss in brief baroreceptors.
- II) How do endocrine glands help regulate calcium levels in blood?
- III) Explain Cushing's syndrome.
- IV) Write functions of cerebrospinal fluid.
- V) Explain hyperthyroidism.
- VI) Write in brief on EEG.

Q-2 Answer the following.

[10]

- A) Draw a labeled diagram of a neuron. Explain electrical transmission in the nerve.

OR

- A) Enumerate parts of brain stem. Describe in detail the medulla oblongata.
- B) Autonomic Nervous System balances physiological functions-Discuss.

OR

- B) Name the hormones stored in posterior pituitary gland. Explain the functions of each of these hormones

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

[10]

- A) Discuss the secretions, regulation and functions of the hormones of thyroid gland
- B) Draw a neat and labeled diagram of brain and enumerate function of each part.
- C) Enumerate cranial nerves stating their functions.

SECTION - 2

Q-4 (A) Do as directed.

[07]

- I) What is night blindness?
- II) Enlist factors regulating body temperature in man.
- III) What is menstruation?
- IV) Define renal calculi.
- V) Write name of the functional unit of the respiratory system.
- VI) What do you mean by buffer system?
- VII) Define pregnancy.

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

[08]

- I) Write functions of the urinary system.
- II) Describe taste receptors
- III) Write in brief on cataract.
- IV) Discuss functions of Trachea
- V) Write in short on spermatozoa
- VI) Discuss in brief birth control methods.

Q-5 Answer the following.

[10]

- A) Draw well-labeled diagram of eye. Write a note on retina.

OR

- A) Discuss the structure and functions of skin
- B) Explain anatomy of internal structure of ear with neat and labeled diagram.

OR

- B) Enlist different sex hormones and write their functions in detail

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

[10]

- A) Define respiration. Explain in detail mechanism of internal respiration.
- B) Write in detail about structural and functional unit of kidney.
- C) Discuss in detail sex differentiation.
