

UKA TARSADIA UNIVERSITY

B. Pharmacy Sem-II Examination June 2012

030020203 - Human Anatomy & Physiology II

Duration: 3 Hours

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.
5. Draw diagrams/figures whenever necessary.

Section-1

Q-1 (A) Do as directed

[07]

- I) Define hormones
- II) Enumerate hormones of posterior pituitary gland.
- III) Define nervous system.
- IV) Enlist four lobes in cerebrum part of the brain.
- V) Enumerate hormones obtained from islets of Langerhans.
- VI) Define motor nerves.
- VII) What is reflex-action?

Q-1 (B) Answer the following in brief: (any 4)

[08]

- I) Differentiate between Sympathetic system and Parasympathetic system.
- II) Discuss in brief baroreceptors.
- III) Give functions of glucocorticosteroids.
- IV) Explain the term Goitre.

V) Explain chemical transmission at synaptic cleft of the nerve.

VI) Write functions of insulin hormone.

Q-2 Answer the following

[10]

A) How do endocrine glands help to regulate calcium levels in blood?

OR

A) Explain synthesis, storage and release of thyroid gland hormones.

B) Discuss the structure and functions of Medulla oblongata.

OR

B) Write composition and functions of Cerebrospinal fluid (CSF).

Q-3 Answer the following in detail: (any 2)

[10]

A) Discuss physiological actions of posterior pituitary hormones.

B) Draw a labeled diagram of Human Brain. Write the functions of Hypothalamus.

C) Enumerate cranial nerves stating their functions.

Section-2

Q-4 A) Do as directed

[07]

I) Define Vital capacity

II) Define Inspiratory reserve volume

III) Enlist different sex hormones

IV) Define Glaucoma

V) What is Renal Calculi?

VI) Enumerate three coats (layers) of the Eye

VII) What is Tympanic membrane?

Q-4 (B) Answer the following in brief: (any 4)

[08]

- I) Draw a neat and labeled diagram of functional unit of kidney.
- II) Enumerate Functions of skin.
- III) Explain in brief Colour blindness.
- IV) Discuss in brief taste receptors.
- V) Name the part of the brain that regulates body temperature. What is meant by a thermostat?
- VI) Write in brief about Asthma.

Q-5 Answer the following

[10]

A) What is menstruation? Write in detail about various phases of menstrual cycle.

OR

A) Draw and label male reproductive system. Explain the process of Spermatogenesis

B) Write a short note on acid-base balance.

OR

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

Q-6 Answer the following in detail: (any 2)

[10]

A) Explain the physiology of hearing, balance and equilibrium

B) Explain in detail physiology of urine formation.

C) Define external respiration. Explain in detail mechanism of internal respiration.
