

# UKA TARSADIA UNIVERSITY

B. Pharm. (2nd Semester) JUNE - 2013

Subject :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 allocated to that question.
5. Draw diagrams/figures whenever necessary.

## SECTION - 1

### Q-1 (A) Do as directed.

[07]

- I) What is sensory neuron?
- II) Enumerate hormones obtained from islets of Langerhans.
- III) What is reflex-action?
- IV) Enlist three coverings of brain and spinal cord
- V) What is EEG?
- VI) Enumerate hormones of posterior pituitary gland.
- VII) Enlist two divisions of Autonomic nervous system

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

[08]

- I) Explain in brief extrapyramidal tract.
- II) Write functions of thyroid gland.
- III) Differentiate between Sympathetic system and Parasympathetic system.
- IV) Explain in brief cerebral ventricles.
- V) Give functions of glucocorticosteroids.
- VI) Draw a labeled diagram of neuron.

### Q-2 Answer the following.

[10]

- A) Enlist parts of Hind brain. Write functions of Hypothalamus.

**OR**

- A) Explain action potential of a neuron.
- B) Write about functions and disorders of growth hormone.

**OR**

- B) Write a note on adrenal secretions.

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

[10]

- A) Draw a labeled diagram of Human Brain. Write a note on cerebral cortex.
- B) Write in detail on Cranial nerves.
- C) Explain regulation and function of insulin hormone.

**SECTION - 2**

**Q-4 (A) Do as directed.**

**[07]**

- I) What is internal respiration?
- II) Which is the functional unit of the urinary system?
- III) Define dysmenorrhea
- IV) What is Tympanic membrane?
- V) Define glaucoma
- VI) Enumerate protective mechanisms of the eye
- VII) Enlist various types of taste buds

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

**[08]**

- I) Write in brief about Asthma.
- II) Discuss Testosterone
- III) Explain in brief about pleura
- IV) Draw a labeled diagram of urinary system.
- V) Enumerate Functions of skin.
- VI) Discuss in brief Middle ear.

**Q-5 Answer the following.**

**[10]**

- A) Draw a neat and labeled diagram of Eye. Explain the Physiology of Vision.

**OR**

- A) Describe physiology of Hearing with suitable diagram.
- B) Discuss the structure and functions of ovary

**OR**

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

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

**[10]**

- A) Draw and Explain Male reproductive system.
- B) Describe phases of Menstruation.
- C) Draw a labeled diagram of functional unit of kidney. Explain physiology of urine formation.

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