



**HX-1612040701020400** Seat No. \_\_\_\_\_

**Master of Pharmacy Management (Sem. II) (CBCS) Examination**

**June / July - 2017**

**Human Anatomy & Physiology - II**

Time : **3** Hours]

[Total Marks : **80**

- Instructions :**
- (1) Attempt three questions from each section.
  - (2) Questions 1 and 5 are compulsory.
  - (3) Figures to the right indicates full marks for the respective question.

**SECTION - I**

- 1** Answer the following questions : (Any SEVEN) **14**
- (1) Draw neat and clean diagram of Nephron.
  - (2) Enlist organs of Female Reproductive system.
  - (3) Comment: Ischemia produces acute brain damage.
  - (4) Comment: After consumption of alcohol urine output increase.
  - (5) Comment: Adrenal gland is known as Master gland.
  - (6) What is the function of optic nerve in human eye?
  - (7) Match the following pairs:

(a) ACTH	(a) Thyroid gland
(b) Epinephrine	(b) Anterior pituitary gland
(c) Thyroxine	(c) Posterior pituitary gland
(d) Oxytocin	(d) Adrenal gland
  - (8) Explain : Neuron
  - (9) Function of Pharynx.
  - (10) Function of Hypothalamus

- 2** Answer the following :
- (1) Enlist hormones of Anterior pituitary gland and state their functions. **7**
  - (2) Explain hormones of Adrenal gland. **6**
- 3** Answer the following :
- (1) Draw a neat labeled diagram of cross section of Spinal cord. Describe in detail about process of Spinal reflexes. **7**
  - (2) Enlist various Neurotransmitters. Explain any two in detail. **6**
- 4** Answer the following :
- (1) Explain reflex mechanism and classify different types of reflex action. **7**
  - (2) Define Nervous system. Write the difference between Parasympathetic nervous system and Sympathetic nervous system. **6**

## SECTION - II

- 5** Answer the following : (Any two) **14**
- (1) Explain in detail about role of renin angiotensin system for bloodpressure regulation in kidney.
  - (2) Describe Glomerulus filtration and Tubular secretion in detail.
  - (3) Write a short note on Male Reproductive system.

- 6** Answer the following :
- (1) Explain physiology of Vision. **7**
  - (2) Describe physiology of Hearing with suitable diagram. **6**
- 7** Answer the following :
- (1) Write about mechanism and regulation of Respiration. **7**
  - (2) Write a note on external and internal respiration processes. **6**
- 8** Answer the following :
- (1) Short note on BBB. **7**
  - (2) Enlist parts of brain. Write functions of Hypothalamus. **6**
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