



HV-014-003207

Seat No. _____

M. P. M. (Sem. II) (CBCS) Examination

June / July - 2017

Human Anatomy & Physiology - II
(Old Course)

Faculty Code : 014

Subject Code : 003207

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
1. Attempt three questions from each section.
 2. Questions 1 and 5 are compulsory.
 3. Figure to the right indicates full marks for the respective question.
 4. Draw neat and clean diagram wherever required.

SECTION - I

- 1** Answer the following : (any seven) **7×2=14**
1. Define : Tidal volume and Vital capacity.
 2. Enlist organs of Female Reproductive system.
 3. Which of the following sentence justifies the term 'referred pain'?
 - A. Pain that originates in an internal organ however, it may be felt in a cutaneous area
 - B. Pain originates from demyelination of nerves
 - C. Precipitation of acute pain because of appendicitis
 - D. Pain of migraine
 4. Explain in brief about Asthma.
 5. Comment: After consumption of alcohol urine output increase.
 6. Enlist functions of Pharynx.
 7. Define neuron and classify it in brief.
 8. Enlist different types of neurotransmitters.
 9. Comment: Adrenal gland is known as Master gland.
 10. Enlist hormones of Pancreas.
- 2** Answer the following questions : **13**
1. Write a note on external and internal respiration processes. **7**
 2. Explain the functions of larynx, trachea, and diaphragm. **6**

- 3** Answer the following questions : **13**
1. Enlist different cranial nerves. Give location and functions of any two cranial nerves in detail. **7**
 2. What is spinal reflex mechanism? Enlist them. **6**
Write a brief note on any one of them.
- 4** Answer the following questions : **13**
1. Explain neurotransmitter synthesis, storage, release, removal and reuptake for norepinephrine. **7**
 2. Define Nervous system. Write the difference between Parasympathetic nervous system and Sympathetic nervous system. **6**

SECTION - II

- 5** Answer any **two** questions from the following : **2×7=14**
1. Write a note on physiology of glomerular filtration and tubular re-absorption and secretion in urine formation.
 2. Explain in detail about role of renin angiotensin system for blood pressure regulation in kidney.
 3. Write a short note on Female reproductive system.
- 6** Answer the following questions. **13**
1. Enlist hormones of Anterior Pituitary gland and state their functions. **7**
 2. A. Differentiate Endocrine and Exocrine glands with appropriate examples. **6**
B. Define : Diabetes; Hyperthyroidism; Gigantism.
- 7** Answer the following questions. **13**
1. Write a detailed note on physiology of vision and explain retinol cycle. **7**
 2. Draw a neat and clean diagram of internal anatomy of ear with appropriate labeling. **6**
- 8** Answer the following questions. **13**
1. Write a note on Cerebro Spinal Fluid. **7**
 2. Draw a neat and labelled diagram of Nephron and enlist the organs included in urinary system. **6**