

**PY - 302**  
**B.Pharmacy III Semester**  
**Examination, December 2014**  
**Anatomy, Physiology & Health Education - II**  
*Time : Three Hours*  
*Maximum Marks : 70*

*Note:* i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

1. a) What are electrophiles?
- b) Define dental caries.
- c) Mention the function of saliva.
- d) Draw a well labeled diagram of stomach.
- e) Write a note on small intestine with special reference to villi.

OR

Write a note on hepatitis.

2. a) What is CNS?
- b) Define Alzheimer
- c) Mention names of various neurotransmitters in the brain
- d) Write a note on reflex action.

OR

Write a note on Parkinsonism.

3. a) Define ANS.
- b) What is ENS?
- c) Mention various sites of ANS where acetylcholine#, neurotransmitter.
- d) Write a note on sympathetic system.

OR

Write a note on Parasympathetic nervous system.

4. a) What is renal failure?
- b) What is the functional unit of kidney?
- c) Draw a labeled diagram of kidney.
- d) Write a note on physiology of urine formation.

OR

Write a note on Urinary tract infection.

5. a) What is diabetes mellitus?
- b) Define acromegaly.
- c) What is diabetes insipidus? Mention the causes and symptoms.
- d) What are hormones? Mention the names, target organs and functions of various hormones released by anterior pituitary gland.

OR

Write a note on adrenal gland.

6. a) Mention the causative agent of gonorrhea and syphilis.
- b) Define impotency.

- c) Mention the hormones of male reproductive system along with their important functions.
- d) Discuss in brief menstrual cycle.

OR

Write a note on pregnancy and its maintenance.

- 7. a) Mention various functions of skin.
- b) Draw a diagram of external ear.
- c) Mention the names of various taste buds.
- d) Discuss the physiology of vision.

OR

Discuss the physiology of hearing

- 8. a) Define sensation and perception.
- b) Define referred pain.
- c) Mention various integrative functions of cerebrum.
- d) Discuss in detail classification and functions of sensory receptors.

OR

Write a note on somatic sensory pathways.