

F/2016/1947

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**FIRST YEAR (NEW) PHARMACY
HUMAN ANATOMY AND PHYSIOLOGY
(105)**

Time : Three Hours

Maximum Marks : 80

- Note :** i) Attempt total *six* questions. Question No.1 is compulsory. Attempt five questions from the remaining.
- ii) Draw neat and well labelled diagram wherever necessary.

1. Attempt any five questions. 10
- a) Name the smallest bone of human body.
 - b) Give one example of Synovial Joint.
 - c) Name the diseases caused by the deficiency of iodine and iron.
 - d) Write the name of sensory nerve of smell.
 - e) Define the term 'Edema'.
 - f) Name the artery supplying blood to the heart.

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P.T.O.

2. Attempt any two questions.

14

- a) Draw a well labelled diagram of a neuron cell.
- b) Differentiate between striated and non striated muscle.
- c) Give the functions of Blood.

3. Attempt any two.

14

- a) Explain the blood coagulation mechanism.
- b) Explain:
 - i) Arthritis
 - ii) Osteoarthritis
- c) Explain the general circulation of blood in human body.

4. Attempt any two.

14

- a) Give the functions of lymph.
- b) Explain:
 - i) Thrombosis
 - ii) Embolism
 - iii) Heart Block
 - iv) Hypertension
- c) Draw the internal structure of cerebrum.

5. Attempt any two. 14

- a) Explain the physiology of respiration with suitable diagram.
- b) Explain the term.
 - i) Bronchitis
 - ii) Dyspnoea
 - iii) Asthma
 - iv) Sinusitis
- c) Differentiate between sympathetic and parasympathetic nervous system.

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6. Attempt any two. 14

- a) Draw a well labelled diagram of microvilli.
- b) Explain the process of food absorption.
- c) Draw the internal structure of Human Eye. Discuss the physiology of sight.

7. Attempt any two. 14

- a) Draw a well diagram of Human excretory system.
- b) Explain:
 - i) Glaucoma
 - ii) Myopia
 - iii) Motion sickness
 - iv) Hypothyroidism

(4)

c) Give the functions of :

i) Proteins

ii) Carbohydrates

iii) Vitamin C

iv) Vitamin D

8. ' Attempt any two.

14

a) Discuss structure and functions of liver.

b) Write a note on Hepatitis.

c) Discuss the physiology of urine formation.

