

First Year Pharm. D : SUMMER - 2019
SUBJECT : HUMAN ANATOMY & PHYSIOLOGY

Day : Friday
Date : 05/04/2019

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 70

S-2019-4498

N.B.:

- 1) **Q.No.1 and Q.No.5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in the **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** A) Answer **ANY FOUR** of the following: [08]
i) What are ribosomes? Enlist their functions.
ii) Define the terms anterior and posterior.
iii) What are the functions of lymph?
iv) Define congestive heart failure.
v) Define hypoxia
- B) Explain with a diagram the normal wave of ECG. [03]
- Q.2** Explain in detail the anatomy of respiratory system. Describe the mechanics of respiration. [12]
- Q.3** a) Explain in detail the anatomy of heart. [07]
b) Write an account on blood pressure. [05]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
a) Types of circulation.
b) Structure of cell
c) Smooth muscle tissue
d) Composition and functions of blood

SECTION – II

- Q.5** A) Answer **ANY FOUR** of the following: [08]
i) What are the protective coverings of brain?
ii) Draw the labeled structure of cerebellum.
iii) Write a note on sperm cell.
iv) Enlist the contraceptive devices.
v) Write a note on structure of tooth.
- B) Brief on physiology of hearing. [03]
- Q.6** Draw a neat labeled diagram of spinal cord. Explain in detail reflex arc. [12]
- Q.7** a) Classify peripheral nervous system. Differentiate between sympathetic and parasympathetic nervous system. [07]
b) Explain the structure of skin. Enlist its physiological role. [05]
- Q.8** Write short notes on **ANY THREE** of the following: [12]
a) Parathyroid gland
b) Menstrual cycle
c) Kidney
d) Small intestine

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