

FIRST YEAR PHARM. D (SUPPLEMENTARY) : SUMMER - 2018

SUBJECT : HUMAN ANATOMY & PHYSIOLOGY

Day : **Monday**
Date : **02/07/2018**

S-2018-4048

Time : **10.00 AM to 01.00 PM**
Max. Marks : 70

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 **SEPARATE** answer books.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** A) Solve **ANY FOUR** of the following: [08]
i) Draw a neat labelled diagram of cell.
ii) Enumerate functions of blood.
iii) What is primary hypertension?
iv) What are major functions of connective tissue?
v) Differentiate between arteries and veins.
B) Explain the process of platelet plug formation. [03]
- Q.2** Define Respiration. Explain in detail mechanism of breathing and exchange of gases during respiration. [12]
- Q.3** a) What is cardiac output? What are the factors regulating cardiac output? [07]
b) Explain active transport system. [05]
- Q.4** Write a note on **ANY THREE** of the following: [12]
a) Structure and functions of spleen
b) Epithelial tissue
c) Haemopoiesis
d) ECG

SECTION – II

- Q.5** A) Solve **ANY FOUR** of the following: [08]
i) Draw the structure of ovary.
ii) Give the functions of nervous system.
iii) Write functions of skin.
iv) Give the functions of cerebellum.
v) Enlist functions of stomach.
B) Write the difference between Sympathetic and Parasympathetic system. [03]
- Q.6** Explain in detail about male reproductive system and explain structure and functions of kidney. [12]
- Q.7** a) Explain the Renin Angiotensin system in detail. [07]
b) Explain mechanism of muscle contraction. [05]
- Q.8** Write a note on **ANY THREE** of the following: [12]
a) Drugs and Athletics
b) Contraceptive devices
c) Thyroid gland
d) Cranial nerves

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