

FIRST YEAR PHARM. D : SUMMER - 2018
SUBJECT : HUMAN ANATOMY & PHYSIOLOGY

Day : **Thursday**
Date : **05/04/2018**

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

S-2018-4019

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) Give significance of Rh factor in blood group.
ii) What are major functions of connective tissue?
iii) Draw a neat labelled diagram of Heart.
iv) Differentiate between arteries and veins.
v) Give the functions of plasma membrane.
B) Explain structure and function of spleen. [03]
- Q.2** Define Blood Pressure. Discuss factors affecting blood pressure and add a note on regulation of blood pressure. [12]
- Q.3** a) Give types and the common locations of epithelial tissues in body. Explain characteristics of epithelial tissues. [07]
b) Explain the mechanisms of respiration. [05]
- Q.4** Write a note on **ANY THREE** of the following: [12]
a) Cardiac arrhythmias
b) Structure and functions of pancreas
c) Anatomy of lymphatic system
d) ECG

SECTION – II

- Q.5** A) Solve **ANY FOUR** of the following: [08]
i) Enumerate the hormones of anterior pituitary gland.
ii) Define spermatogenesis.
iii) Draw a neat labelled diagram of interior of eye.
iv) Give the functions of skin.
v) Give the functions of medulla oblongata.
B) Explain functions of Thyroid hormones. [03]
- Q.6** Draw a neat labelled diagram of female reproductive system and explain the phases of menstrual cycle. [12]
- Q.7** a) Explain anatomy and physiology of skeletal muscle. [07]
b) Discuss the various family planning methods. [05]
- Q.8** Write a note on **ANY THREE** of the following: [12]
a) Renin angiotensin system
b) Structure and function of sperm
c) Drugs and athletics
d) Cerebellum

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