

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

Day : Monday
Date : 01/07/2019

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

S-2019-4527

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 mitochondria? Enlist their functions.
ii) Define the terms lateral and medial.
iii) Enlist the organs and functions of lymphatic system.
iv) Write the types of circulation.
v) Define tidal volume.
- B) Give an account of factors affecting blood pressure. [03]
- Q.2** Enlist the names and sources of clotting factors. Explain in detail the process of blood clotting. [12]
- Q.3** a) Explain in detail the formation of lymph. [07]
b) Write an account on anaemia. [05]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
a) Regulation of respiration
b) Cartilages
c) Cardiac muscle tissue
d) ECG

SECTION – II

- Q.5** A) Answer **ANY FOUR** of the following: [08]
i) Draw neat labeled structure of ear.
ii) Note on mechanical digestion in small intestine.
iii) Give structure of nephron.
iv) What is renal plasma clearance?
v) What is parasympathetic nervous system?
- B) Write a note on composition and functions of pancreatic juice. [03]
- Q.6** Explain the anatomy of male reproductive system. Explain in detail spermatogenesis. [12]
- Q.7** a) Describe in detail cranial nerves. Add a note on meninges of CNS. [07]
b) Describe the hormones of posterior pituitary gland. [05]
- Q.8** Write short notes on **ANY THREE** of the following: [12]
a) Drugs and athletics
b) Menstrual cycle
c) Anatomy of cerebellum
d) Liver

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