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DE—1—2018

FACULTY OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY

(Pharm D) (First Year) EXAMINATION

MARCH/APRIL, 2018

HUMAN ANATOMY AND PHYSIOLOGY

(Friday, 20-4-2018)

Time : 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—70

N.B. :— (i) All questions are compulsory.

(ii) Draw a neat labelled diagram wherever necessary.

(iii) Answer to the point only.

1. Solve any *five* of the following questions : 5×2=10

(a) Enlist the bones present in the cranium.

(b) Write the normal value and life span of RBC and platelets.

(c) Define blood pressure and give its normal range.

(d) Define Hypoxia and Asphyxia.

(e) Give composition and functions of gastric juice.

(f) Define reflex action.

(g) Explain the terms Depolarization and Hyperpolarization.

2. Solve any *two* of the following : 2×6=12

(a) Describe in detail anatomy and physiology of spleen.

(b) Discuss about anatomy and physiology of heart.

(c) Describe in detail systemic and pulmonary circulation.

3. Solve any *two* of the following : 2×6=12

(a) Describe in detail physiology or mechanism of respiration.

(b) Classify tissues with examples. Discuss connective tissue.

(c) Discuss in detail about the digestion and absorption of carbohydrates, proteins and fats in the small intestine.

P.T.O.

4. Solve any *two* of the following : 2×6=12
- (a) Explain the structure and functions of cerebellum.
 - (b) Discuss the structure and functions of kidney with a neat labelled diagram.
 - (c) List the hormones secreted by adrenal cortex and write about their functions.
5. Solve any *two* of the following : 2×6=12
- (a) Explain about natural methods of contraception. Write about functions of testosterone.
 - (b) Explain in detail the various phases involved in the regulation of gastric secretion.
 - (c) Compare the anatomical components of the sympathetic and parasympathetic divisions of the autonomic nervous system.
6. Solve any *two* of the following : 2×6=12
- (a) Write a neat labelled diagram of eye. Explain in detail about physiology of vision.
 - (b) Explain the physiology of skeletal muscle contraction.
 - (c) Draw neat labelled diagram of male reproductive system. Explain the physiology of spermatogenesis.