

B.PHARM.
THEORY EXAMINATION (SEM-II) 2016-17
ANATOMY PHYSIOLOGY AND PATHOPHYSIOLOGY-II

Time : 3 Hours

Max. Marks : 100

Note : Be precise in your answer.

SECTION – A

1. **Explain the following:** **10 x 2 = 20**
- (a) Write the name and function of X & XII cranial nerve.
 - (b) In an EEG, the frequency of alpha and theta waves is _____ and _____ respectively.
 - (c) Major neurotransmitter released from the sympathetic nervous system is _____
 - (d) Which clotting factor is known as Christmas factor?
 - (e) Define megaloblastic anemia.
 - (f) Define erythropoiesis.
 - (g) Which cranial nerve is the largest amongst all?
 - (h) Name different parts of brain stem.
 - (i) Name various gastro-intestinal secretions.
 - (j) Which nerves are involved in the sympathetic and parasympathetic nervous system?

SECTION – B

2. **Attempt any five of the following questions:** **5 x 10 = 50**
- (a) Differentiate between sympathetic and parasympathetic system.
 - (b) Give the location and function of different cranial nerves.
 - (c) What is reflex action? Describe the components of a reflex arc.
 - (d) **Explain the following terms:**
 - (i) Neurons
 - (ii) Action Potential
 - (iii) Hypersensitivity
 - (iv) Neurotransmitter
 - (v) CSF
 - (e) Discuss the anatomy and physiology of digestive system.
 - (f) Give the pathophysiology of urinary tract infection.
 - (g) Write a note on acid-base balance.
 - (h) Discuss in brief about the pathophysiology of hypersensitivity and allergy.

SECTION – C

- Attempt any two of the following questions:** **2 x 15 = 30**
3. Discuss the physiology of autonomic nervous system in detail.
 4. Write a note on different type of lymphoid tissues. Discuss the pathophysiology of peptic ulcer.
 5. Discuss in detail about the different gastro-intestinal secretions with their functions.