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B.PHARM.**THEORY EXAMINATION (SEM-II) 2016-17****ANATOMY, PHYSIOLOGY & PATHOPHYSIOLOGY-II***Time : 3 Hours**Max. Marks : 70**Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.***SECTION – A****1. Explain the following:****7 x 2 = 14**

- (a) Meninges.
- (b) Cauda equina.
- (c) Thalassemia
- (d) Heparin
- (e) Metabolic acidosis
- (f) Micturition
- (g) Chyme

SECTION – B**2. Attempt any five of the following questions:****5 x 7 = 35**

- (a) Name various cranial nerves. Explain anatomy of spinal cord with labeled diagram.
- (b) Explain the types and significance of all the brain waves. Also add a note on applications of EEG.
- (c) Define neurotransmitter. Give the synthesis and release of acetylcholine.
- (d) Define Hypersensitivity. Explain various types of hypersensitivity with examples.
- (e) Describe the composition, functions and circulation of lymph.
- (f) Draw a neat labelled diagram of nephron and explain structure of nephron.
- (g) **Give the pathophysiology of:**
 - (i) Glomerulonephritis
 - (ii) Urinary tract infection.
- (h) Explain the phases of regulation of gastric secretion.

SECTION – C**Attempt any two of the following questions:****2 x 10.5 = 21**

- 3. Write physiological actions of sympathetic and parasympathetic nervous system on various organs and glands.
- 4. Give the composition and general functions of blood. Write the characteristics of different types of blood cells.
- 5. Draw a neat labeled diagram of digestive system. Explain in detail structure & functions of small intestine.