

B PHARM
(SEM II) THEORY EXAMINATION 2018-19
ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY-II

Time: 3 Hours**Total Marks: 70****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 2 x 7 = 14**
- a. Name the membranes covering brain & spinal cord.
 - b. Major neurotransmitter associated with sympathetic nervous system is _____.
 - c. Write composition and functions of lymph.
 - d. Write in brief about importance of electroencephalogram.
 - e. What do you mean by net filtration pressure?
 - f. Enlist various parts of gastrointestinal tract.
 - g. What do you mean by anemia?

SECTION B

- 2. Attempt any three of the following: 7 x 3 = 21**
- a. Enlist various cranial nerves and discuss their origin, termination and functions.
 - b. Discuss the mechanism of Neurohumoral transmission in ANS.
 - c. Define hypersensitivity. Explain various types of hypersensitivity reactions with examples.
 - d. Discuss the physiology of urine formation in detail.
 - e. Write a summarized note on various digestive enzymes and their role in digestion.

SECTION C

- 3. Attempt any one part of the following: 7 x 1 = 7**
- (a) Enlist various parts of brain. Discuss anatomy and physiology of cerebrum.
 - (b) Write a note on reflex arc. Discuss various components of reflex arc.
- 4. Attempt any one part of the following: 7 x 1 = 7**
- (a) Discuss physiological actions of parasympathetic and sympathetic nervous systems on human physiology.
 - (b) What do you mean by neurotransmitter? Discuss synthesis and release of acetylcholine.
- 5. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain mechanism of blood coagulation in detail.
 - (b) Discuss composition and functions of blood. Explain Erythropoiesis in detail.
- 6. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain functional unit of kidney with the help of well labeled diagram.
 - (b) Explain pathophysiology of Renal failure in detail.
- 7. Attempt any one part of the following: 7 x 1 = 7**
- (a) Write a note on various secretory cells of stomach. Explain the physiology of HCl secretion in stomach.
 - (b) Write a detailed on pathophysiology of peptic ulcer.