

**B. PHARM.**  
**(SEM II) THEORY EXAMINATION 2017-18**  
**ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY-II**

*Time: 3 Hours*

*Total Marks: 100*

**Note: 1.** Attempt all Sections.

**SECTION A**

- 1. Attempt all questions in brief. 2 x10 = 20**
- a. What is the ratio of RBCs and WBCs in a human body?
  - b. What is intrinsic factor (IF)?
  - c. Name the three functional area of cerebrum.
  - d. What neurotransmitters are released by the sympathetic and parasympathetic nervous system?
  - e. What are lacteals? State their chief function.
  - f. What is EPO or Erythropoietin?
  - g. Define hemostasis.
  - h. Define hematuria.
  - i. Define IBD or Inflammatory bowel disease.
  - j. Define acute renal failure (ARF).

**SECTION B**

- 2. Attempt any three of the following: 10 x 3 = 30**
- a. Describe the formation and circulation of cerebrospinal fluid.
  - b. Describe the structure and function of brain stem.
  - c. Write in detail account of autonomic nervous system.
  - d. What is the blood bank of the human body? How does the extrinsic and intrinsic pathway of blood clotting differ?
  - e. Discuss the pathophysiology of ulcerative colitis and crohn's disease.

**SECTION C**

- 3. Attempt any one part of the following: 10 x 1 = 10**
- (a) Discuss the function of broca's area and wernicke's area of the brain with suitable diagram.
  - (b) Discuss the role of the kidney in acid base balance.

- 4. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Enlist various type of anemia and discuss about megaloblastic anemia.
  - (b) Discuss the pathophysiology of hepatitis.
- 5. Attempt any *two* part of the following: 5 x 2 = 10**
- (a) Draw a neat labeled diagram of urinary system
  - (b) Discuss the structure and function of liver.
  - (c) Write note on pathophysiology of urinary tract infection.
- 6. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Which are soldiers of the body in offence and defence? Discuss pathophysiology hypersensitivity.
  - (b) What is a aplastic anemia? Write in detail account of erythropoiesis.
- 7. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Describe the factors that stimulate and inhibit gastric secretion and motility.
  - (b) Write in detail about blood group and What precaution must be taken before giving a blood transfusion.