

Code No: PHR16114

**R16****SET - 1****I B. Pharmacy I Semester Supplementary Examinations, February - 2020**  
**HUMAN ANATOMY & PHYSIOLOGY-I**

Time: 3 hours

Max. Marks: 70

Note: 1. Question paper consists of two parts (**Part-A** and **Part-B**)  
2. Answering the question in **Part-A** is Compulsory  
3. Answer any **FOUR** Questions from **Part-B**

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**PART -A**

1. a) Describe the types of epithelial tissues. (2M)
- b) Write a note on the significance of blood groups. (2M)
- c) Write a note on the factors affecting cardiac output. (2M)
- d) Describe the role of oxygen in the metabolism of nutrients. (2M)
- e) What are the different types of salivary glands? (2M)
- f) Mention the disorders of the kidneys. (2M)
- g) Explain the functions of lymph. (2M)

**PART -B**

2. a) Write a note on the types of muscular tissue, their properties and functions. (7M)
- b) Describe the different types of joints and types of movements of joints. (7M)
3. a) Describe the mechanisms of coagulation of blood. (7M)
- b) Write a note on the formation and functions of lymph. (7M)
4. a) Write a note on the generation and conduction of impulses in the heart. (7M)
- b) Describe the coronary and hepatic circulation of blood. (7M)
5. a) Write a note on the external and internal respiration. (7M)
- b) Describe the process of utilization of oxygen for generation of energy. (7M)
6. a) Write a note on the motility of the gastrointestinal tract and its regulation. (7M)
- b) Describe the process of digestion of food in the stomach and its absorption. (7M)
7. a) Write a note on the regulation of acid base balance by the kidneys. (7M)
- b) Write a note on the structure and functions of nephron. (7M)