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**BPHARM**  
**(SEM I) THEORY EXAMINATION 2021-22**  
**HUMAN ANATOMY AND PHYSIOLOGY– THEORY**

**Time: 3 Hours****Total Marks: 75****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 10 x 2 = 20**

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| a. | Describe the role of smooth endoplasmic reticulum.               |
| b. | Describe the physiological role of Golgi complex.                |
| c. | Give the function of Langerhans cell in Skin?                    |
| d. | Enlist the names of contractile proteins in human body.          |
| e. | Identify the blood group known as Universal donor?               |
| f. | Differentiate blood capillaries and lymphatic capillaries.       |
| g. | Define systolic and diastolic blood pressure.                    |
| h. | Differentiate preganglionic neurons and post ganglionic neurons. |
| i. | Write the tissue name known as Pacemaker?                        |
| j. | Define Cardiac Output.   |

**SECTION B****2. Attempt any two parts of the following: 2 x 10 = 20**

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| a. | Discuss cell with well labelled diagram. Explain its organelles in detail.  |
| b. | Illustrate hemostasis. Discuss the various pathways of blood coagulation.   |
| c. | Explain the structural and functional difference of Sympathetic and Parasympathetic division of autonomic nervous system. |

**SECTION C****3. Attempt any five parts of the following: 7 x 5 = 35**

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| a. | Classify transport across plasma membrane. Explain the process of primary active transport. |
| b. | Explain the structure of Long Bone with the help of diagram.                                |
| c. | Discuss the structure and functions of Lymph node.  |
| d. | Describe Heart with well labelled diagram. Relate electrocardiogram (ECG) with it.          |
| e. | Explain the anatomy and physiology of Vision.   |
| f. | Classify Joints. Explain the structure of Synovial Joint.                                   |
| g. | Discuss the phenomenon of neuromuscular junction with the help of diagram.                  |