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**B PHARM**  
**(SEM II) THEORY EXAMINATION 2022-23**  
**HUMAN ANATOMY AND PHYSIOLOGY-II**

**Time: 3 Hours**

**Total Marks: 75**

**Note:** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

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**1. Attempt all questions in brief. 10 x 2 = 20**

- Describe the term "Neural Synapse".
- Identify various types of Cholinergic and Adrenergic Receptors.
- Recall various functions of Insulin and Glucagon.
- Summarize the terms "BMR and CPR".
- Enumerate the role of true and false vocal cord.
- Investigate various types of cells present in small intestine.
- Classify various types of hormones released from Pituitary gland.
- State the location and functions of Pineal gland.
- Define "menarche" and "menopause".
- Elaborate the meaning of capacitation.

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**SECTION B**

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

- Discuss in detail about the composition, formation, and circulation of cerebrospinal fluid.
- Show the structure of tooth with well labeled diagram.
- Illustrate in detail about the structure and functions of Kidney.

**SECTION C**

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

- Describe the structure and functions of Spinal cord.
- Demonstrate the anatomy and physiology of liver and gall bladder.
- Demonstrate the process of O<sub>2</sub> and CO<sub>2</sub> transport in blood.
- Illustrate the physiology of Urine formation with well labeled diagram.
- Explain the synthesis, release, and circulation of thyroid hormones.
- Compare various phases of menstrual cycle along with its hormonal regulation.
- Assess the structure of Testis and process of Spermatogenesis.