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BPHARM
(SEM IV) THEORY EXAMINATION 2021-22
ANATOMY, PHYSIOLOGY & PATHOPHYSIOLOGY-III

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.	Define internal and external respiration.
b.	Outline the various causes of pneumonia.
c.	Classify various types of Angina pectoris.
d.	Define arteriosclerosis.
e.	Recite the roles of Sertoli cells and Leydig cells.
f.	Identify the role of Calcitonin.
g.	Interpret the term "Emigration".

SECTION B**2. Attempt any three of the following: 7 x 3 = 21**

a.	Explain the pathophysiology of Tuberculosis.
b.	Discuss the pathogenesis of Hypertension.
c.	Demonstrate various phases of Menstrual cycle and its hormonal regulation.
d.	Discuss the pathogenesis of Diabetes mellitus.
e.	Determine various types of cellular adaptations.

SECTION C**3. Attempt any one part of the following: 7 x 1 = 7**

(a)	Discuss mechanism and regulation of Respiration.
(b)	Classify Emphysema. Explain its pathogenesis and clinical manifestations.

4. Attempt any one part of the following: 7 x 1 = 7

(a)	Determine the structure of Heart. Discuss Cardiac Cycle.
(b)	Demonstrate the etiology and pathogenesis of Congestive Heart Failure.

5. Attempt any one part of the following: 7 x 1 = 7

(a)	Explain the structure of testes and process of Spermatogenesis.
(b)	Explore the structure of Ovary and process of Oogenesis.

6. Attempt any one part of the following: 7 x 1 = 7

(a)	Discuss the structure of Adrenal Gland. Explain the functions of Glucocorticoids.
(b)	Describe the synthesis, storage, release, and functions of thyroid hormones.

7. Attempt any one part of the following: 7 x 1 = 7

(a)	Demonstrate the pathogenesis of acute inflammation.
(b)	Describe the mechanism involved in reversible type cell injury.