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**ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)****B.E. /B.Tech / B. Arch (Full Time) – ARREAR EXAMINATIONS, NOV / DEC 2024****BE BIOMEDICAL ENGINEERING****II Semester****BM 3202 ANATOMY AND PHYSIOLOGY****(Regulation 2023)**

Time: 3hrs

Max. Marks: 100

CO1	Understand the basic structural and functional elements of the human body.
CO2	Understand the gaseous exchange and fluid maintenance in the human body.
CO3	Understand the organs and structures involved in system formation and functions.
CO4	Analyze the functions of physiological system
CO5	Comprehend the activity of sensory and motor nerves
CO6	Analyze and Interpret Different Physiological Conditions in the Human Body.

**BL – Bloom's Taxonomy Levels**

(L1-Remembering, L2-Understanding, L3-Appling, L4-Analysing, L5-Evaluating, L6-Creating)

**PART- A(10x2=20Marks)**

(Answer all Questions)

Q.No.	Questions	Marks	CO	BL
1	Mention different cavities in the body?	2	1	3
2	What is bundle of His?	2	3	3
3	What is meant by partial pressure of oxygen?	2	2	3
4	What is the significance of JXT apparatus?	2	2	3
5	Give the significance of bone marrow?	2	4	4
6	Differentiate lymphocyte and leucocytes?	2	3	3
7	What are ligaments and tendons?	2	4	3
8	Mention the ventricles of brain?	2	5	3
9	What are glial cells?	2	5	4
10	What is meant by fluidity of membrane?	2	1	3

**PART- B(5x 13=65Marks)**

Q. No.	Questions	Marks	CO	BL
11 (a)	How the membrane potential is generated?	13	1	4
OR				
11 (b)	Describe the semi permeability of membrane with diagram?	13	1	4
12 (a)	How kidney functions to remove the wastes?	13	2	3
OR				
12 (b)	How gases are exchanged in the lungs?	13	2	3
13 (a)	Explain the anatomy of heart with a neat diagram?	13	3	3
OR				
13 (b)	Describe the composition of blood?	13	3	3
14 (a)	What is meant by joint? List out various types with examples?	13	4	2
OR				
14 (b)	Explain the structure of eye?	13	4	2
15 (a)	How the neuron conducts the stimulus explain with neat diagram?	13	5	4
OR				
15 (b)	How different lobes of brain are associated with body functions?	13	5	4

**PART- C(1x 15=15Marks)**  
(Q.No.16 is compulsory)

Q. No.	Questions	Marks	CO	BL
16.	How the sound is heard by an individual?	15	5	5

