Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Arrear Examination – May 2025
I Semester

Batch : 2023 **Time: 3 Hours**
Major : Physical Education **Max. Marks: 100**

23BPEC02 Basic and Systemic Anatomy & Physiology

Course Outcomes:

CO1: Define a anatomic terms refer to the human body in terms of axis and planes.
CO2: Identify and locate the anatomical structures and functions of the human body.
CO3: Categorize the major organs and its functions of the body.
CO4: Describe the interdependency and interactions of the systems.
CO5: Develop the practical knowledge in modern technology and tools to basic scientific facts.

Part A
Choose the Correct Answer **10 x 1 = 10**

1. Who is the father of anatomy — CO3 K1
   a. Jakob schleiden b. theoder schwann
   c. Robert hookee d. Robert hentry

2. Susidal bag — CO1 K2
   a. endocrine gland b. lysosomes
   c. mitochantria d. mesosomes

3. A cell is made of — CO3 K1
   a. cytoplasm b. protoplasm
   c. nucleous d. mitochontria

4. How many classification are there in bones? — CO2 K1
   a. 5 b. 7
   c. 6 d. 4

5. Systole means — CO1 K4
   a. A period relaxation b. A period exhalation
   c. A period inhalation d. A period contration

6. Stroke volume formula — CO1 K3
   a. VO2/CA-CV b. HR×SV
   c. CO/HR d. none of above

7. Which part of the respiratory gaseous exchange takes places — CO1 K3
   a. pharynx b. alveoli
   c. larynx d. trachea

8. A tiny air sacs presents in human lungs is called — CO1 K2
   a. bronchus b. bronchioles
   c. alveoli d. all of the above

9. In Aves the exchange of gases occurs within the — CO3 K1
   a. air sacs b. air sacs and lungs
   c. lungs d. none of the above

10. How many nerves in human body — CO2 K1
   a. 5 trillion b. 7 trillion
   c. 6 trillion d. 4 trillion

Part B

Answer ALL questions

Each answer should not exceed 400 words or two pages **5 x 6 = 30**

11.a. Definition of anatomy and physiology.	CO3 K2
(or)	
11.b. List out theeffectof exercise on skeletal system.	CO2 K3
12. a. What are the major classification of muscle?	CO2 K4
(or)	
12.b. Explain the types of muscle contraction	CO3 K1
13. a. What is short Concept of stroke volume, cardiac output andcardiac index.	CO3 K2
(or)	
13.b. Write a note on circulatory system.	CO5 K1
14. a. Write the Function mechanism of respiration.	CO3 K2
(or)	
14.b. What is the Concept of recovery oxygen and second wind.	CO2 K3
15. a. Write about parathyroid gland.	CO3 K2
(or)	
15.b. Write a note on pancreas.	CO5 K1

Part C

Answer ALL questions

Each answer should not exceed 800 words or four pages **5 x 12 = 60**

16. a. Explain the structure and functions of cell.	CO2 K3
(or)	
16.b. Enumerate the structure and type of bones.	CO2 K2
17. a. Enumerate the sliding filament theory.	CO3 K2
(or)	
17.b. Explain effect of exercise on muscular system.	CO4 K3
18.a. Enumerate the structure and function of circulatory.	CO4 K3
(or)	
18.b. Explain therespiratory system structure and function.	CO2 K3
19. a. Illustrate cardio respiratory adaptation to long term exercise.	CO3 K3
(or)	
19.b. Explain the function mechanism of digestive system.	CO2 K2
20. a. Enumerate the effect of exercise on digestive system.	CO3 K2
(or)	
20.b. Explain the functional interpretation of neuro muscular junction.	CO4 K3

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