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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)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore – 641 043, Tamil Nadu, India

Bachelor's Degree Examination - December 2023
I Semester

Class : I UG

Time : 3 Hours

Major : Physical Education

Max. Marks: 100

23BPEC02 Basic and Systemic Anatomy and Physiology

Course Outcomes:

- CO 1. The student will be oriented with the basic structure and function of human body by identifying, comparing and relating different systems, organs and their functional and structural units.
- CO2. Able to Relate and interpret the role of exercise on body systems and its relation to wellbeing, through literature reviews and physical conditioning exercises.
- CO3. Adapt the art to apply the knowledge of anatomy and physiology in physical activity classes at school level.
- CO4. Construct anatomy and physiology related pedagogical materials exploring their creative imaginations while working in group and using technology.
- CO5. Appraise the effects during the training and practical sessions.

Part A

10 x 1 = 10

Choose the Correct Answer

1. The largest bone of the human body is CO1K3
a. Scapula b. Tibia
c. Patella d. Femur
2. The "power house" of the cell is CO3K3
a. Ribosome's b. Liposome's
c. Mitochondria d. None of the above
3. Sliding filament theory of muscle contraction was given by CO2K3
a. Huxley b. Newton
c. Darwin d. Pythagoras
4. Which of the following is not a type of tissue? CO3K5
a. Muscle b. Nervous
c. Embryonic d. Epithelial
5. In the blood oxygen is carried by CO2K3
a. Leucocytes b. Erythrocytes
c. Thrombocytes d. All the above
6. Lungs are covered by CO2K2
a. Peritoneum b. Muscles
c. Pericardium d. Pleural membrane
7. A neuron that conveys Sensory Impulses from a receptor to the central nervous system is Called CO2K3
a. Efferent nerve b. afferent nerve
c. Both a & b d. None of the above
8. The major excretory organ of human body CO1K2
a. Skin b. Kidney
c. Lungs d. Heart
9. The kidney gets blood supply from. CO2K2
a. Renal veins b. Inferior venacava
c. Renal alteries d. All the above
10. Largest gland is CO2K2
a. Liver b. Pancreas
c. Pituitary gland d. thyroid gland

Part B
Answer all questions
Each answer should not exceed 400 words or two pages

5 X 6 = 30

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| 11. a. Explain the need and importance of Anatomy and Physiology in the field of Physical Education. | CO2K2 |
| (or) | |
| 11.b Draw the structure and explain the function of Cell. | CO3K3 |
| 12.a What are the function of muscle? | CO2K4 |
| (or) | |
| 12.b. Explain various type of muscular contractions. | CO4K4 |
| 13.a. What is stroke volume and Cardiac output? | CO2K3 |
| (or) | |
| 13.b. What is internal respiration and external respiration? | CO4K3 |
| 14.a Explain the normal urine formation with basic structure of nephron. | CO3K3 |
| (or) | |
| 14.b. Write the function of Nervous system. | CO4K4 |
| 15.a. Write about the function of liver. | CO2K5 |
| (or) | |
| 15.b. Write about the structure and function of Pancreas. | CO3K3 |

Part C
Answer all questions
Each answer should not exceed 800 words or four pages

5 X 12 = 30

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| 16.a. Explain about the structure and function of skeletal system. | CO2K2 |
| (or) | |
| 16.b. Explain the various types of joints with example. | CO3K3 |
| 17.a. Describe the Sliding filament theory of muscular contractions. | CO4K4 |
| (or) | |
| 17.b. Explain about the various types of tissues? | CO2K2 |
| 18.a. Draw a neat diagram of heart and explain its function. | CO3K3 |
| (or) | |
| 18.b. Explain the structure and Function of the respiratory system. | CO4K2 |
| 19.a. Describe about the various types of nervous system. | CO3K4 |
| (or) | |
| 19.b. Explain the structure and function of kidney. | CO2K2 |
| 20.a. Explain about the location and function of endocrine glands. | CO3K4 |
| (or) | |
| 20.b. Explain structure and function of digestive system. | CO4K2 |
