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| **SCHOOL OF PHARMACY** | | E:\Blank format\AJU LOGO.jpg | | | | | **1ST INTERNAL EXAMINATION** | |
| Program Name | | **BACHELOR OF PHARMACY** | Program Code | | | | **B.PHARM** | |
| Course Name | | **Human Antomy & Physiology-I Theory** | Semester | | | | **1st Semester** | |
| Course Code | | **PHM21001** | Year | | | | **2023/ODD** | |
| Time: 1Hour | | **Answer all Questions of Section A**  **Answer Any one of Section B**  **Answer Any two of Section C** | Maximum Marks | | | | **30** | |
| Knowledge Level (KL) | | **K1 :** Remembering | **K3 :** Applying | | | | **K5 :** Evaluating | |
| **K2 :** Understanding | **K4 :** Analysing | | | | **K6 :** Creating | |
| **Section A**  **All the Questions are COMPULSORY**  **MULTIPLE CHOICE type Question [1 x 10 = 10 Marks]** | | | | | | | | |
| **Q. No.** | **Questions** | | | **Marks** | **COs** | **KL** | | **PO** |
| **1(i)** | **Microtubule organizing center is**   1. Microfilament 2. Mitochondria 3. Golgi Complex 4. Centrosome | | | **1** | **CO1** | **K1** | | **PO1, PO2** |
| **1(ii)** | **Which layer is absent in thin skin**   1. Stratum spinosum 2. Stratum granulosum 3. Stratum lucidum 4. Stratum corneum | | | **1** | **CO3** | **K4** | | **PO1, PO2** |
| **1(iii)** | **Which of the following cell organelles have vesicle which contains oxidases (oxidative enzymes) and catalase (decomposes hydrogen peroxide)**   1. Lysosome 2. Peroxisome 3. Proteasome 4. Mitochondria | | | **1** | **CO1** | **K2** | | **PO1, PO2** |
| **1(iv)** | **Merocrine gland is**   1. Salivary gland 2. Mammary gland 3. Sebaceous gland 4. Pancreas | | | **1** | **CO1** | **K1** | | **PO1, PO2** |
| **1(v)** | **Coronal Suture is present between**   1. Parietal bone and Temporal bone 2. Frontal bone and parietal bone 3. Parietal bone and Occipital bone 4. Frontal bone and Temporal bone | | | **1** | **CO2** | **K1** | | **PO1, PO2** |
| **1(vi)** | **This event occurs during muscular contraction**  I. H-zone disappears  II. A band widens  III. I band shortens  IV. Width of A band is unaffected  V. M line and Z line get closer   1. I, II and III 2. I, III, IV and V 3. II, IV and V 4. I, II and V | | | **1** | **CO3** | **K3** | | **PO1, PO2, PO10** |
| **1(vii)** | **Which of the following cell junction do not link to adjacent cells**   1. Tight junction 2. Gap Junction 3. Hemidesmosome 4. Desmosome | | | **1** | **CO1** | **K2** | | **PO1, PO2** |
| **1(viii)** | **Match the following**   |  |  | | --- | --- | | 1. Osteoprogenitor cells | 1. Mature bone cells | | 1. Osteoblast | 1. Derived from the fusion of monocytes | | 1. Osteocytes | 1. Unspecialized bone stem cells | | 1. Osteoclasts | 1. Bone-building cells |  1. A (I), B(II), C(III), D(IV) 2. A (III), B(IV), C(I), D(II) 3. A (II), B(III), C(IV), D(I) 4. A (I), B(III), C(IV), D(III) | | | **1** | **CO2** | **K4** | | **PO1, PO2, PO10** |
| **1(ix)** | **Which of the following cells are detect touch sensations**   1. Merkel cells 2. Langerhans cells 3. Keratinocytes 4. Melanocytes | | | **1** | **CO3** | **K1** | | **PO1, PO2** |
| **1(x)** | **Osteon is**   1. Repeating unit of Spongy bone 2. Repeating unit of Cardiac mucle 3. Repeating unit of Muscle fibre 4. Repeating unit of Compact bone | | | **1** | **CO2** | **K1** | | **PO1, PO2** |
| **Section B**  **Answer any ONE out of TWO [1x 10= 10Marks]** | | | | | | | | |
| **Q. No.** | **Questions** | | | **Marks** | **COs** | **KL** | | **PO** |
| **1** | Define Tissue. Classify Epithelial tissue, Connective tissue, Muscular tissue & Nervous tissue. | | | **10** | **CO1** | **K1, K2** | | **PO1, PO2, PO9** |
| **2** | Define joints. Classify it with location of joints. | | | **10** | **CO2** | **K1, K2** | | **PO1, PO2, PO9** |
| **Section C**  **Answer any TWO out of THREE [2 x 5 = 10 Marks]** | | | | | | | | |
| **Q. No.** | **Questions** | | | **Marks** | **COs** | **KL** | | **PO** |
| **1** | Write about Mitochondria & Golgi apparatus. | | | **05** | **CO1** | **K1, K2** | | **PO1, PO2, PO9** |
| **2** | Write structure & functions of Skin. | | | **05** | **CO3** | **K1, K2, K6** | | **PO1, PO2, PO9** |
| **3** | Write in details about total number of bones. | | | **05** | **CO2** | **K1, K2** | | **PO1, PO2, PO9** |

CO- Course Outcomes, KL- Knowledge Level, PO – Program Outcome

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| Course Outcomes | CO1 | Explains the gross morphology, structure and functions of various organs of the human body |
| CO2 | Describe the various homeostatic mechanisms and their imbalances. |
| CO3 | Identify the various tissues and organs of different systems of human body. |
| CO4 | Perform the various experiments related to special senses and nervous system. |
| CO5 | Appreciate coordinated working pattern of different organs of each system. |