Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov/Dec– 2017**

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| **Code :** | **14BT2043** | **Duration :** | **3hrs** |
| **Sub. Name :** | **HUMAN PHYSIOLOGY** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Relate the homeostatic mechanisms of the major functional systems. | CO1 | 10 |
| b. | Illustrate the structure and functions of animal cell with neat diagram. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Demonstrate about the functions of membrane and non-membrane bound organells. | CO1 | 10 |
| b. | Compare the transportation across the cell membranes with action potentials. | CO2 | 10 |
|  |  |  |  |  |
| 3. |  | Explain the components and their functions of circulatory system with neat diagram. | CO1 | 20 |
| (OR) | | | | |
| 4. | a. | Illustrate the structure of heart with explaining its parts. | CO1 | 5 |
|  | b. | List out the types of blood vessels and their role in pulmonary and systemic circulation. | CO2 | 15 |
|  |  |  |  |  |
| 5. | a. | Determine the various organizational structures of digestive system | CO1 | 10 |
|  | b. | Discuss in detail about the functions of liver. | CO2 | 5 |
|  | c. | Analyse the role of pancreas in glucose homeostasis. | CO2 | 5 |
| (OR) | | | | |
| 6. | a. | Describe the structure and functions of each organ in respiratory system. | CO1 | 10 |
|  | b. | Evaluate the functions of respiratory system based on their various divisions. | CO2 | 10 |
|  |  |  |  |  |
| 7. | a. | Explain the importance of chemical messengers in coordination of body functions. | CO2 | 8 |
|  | b. | List out any four endocrine glands and explain their functions. | CO2 | 12 |
| (OR) | | | | |
| 8. | a. | Discuss in detail about the internal and external reproductive organs of male. | CO1 | 10 |
|  | b. | Summarize the composition and functions of female reproductive system. | CO2 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Elaborate the organization of nervous system. | CO1 | 10 |
|  | b. | Classify the cells of nervous system in detail. | CO2 | 10 |

ALL THE BEST