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

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**End Semester Examination – Nov/Dec – 2018**

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Describe the various mechanisms used by our body to achieve and retain a state of homeostasis. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Define the terms membrane potential, resting potential, equilibrium potential and action potential. | CO1 | 10 |
| b. | Explain the active transport process in a cell. | CO2 | 10 |
|  |  |  |  |  |
| 3. |  | Elucidate the steps by which hormones communicate. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | Describe the process of oxygen and carbon dioxide transport within the body. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | Expound the steps of muscle contraction in the human body. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Define the terms systole, diastole and describe the events happening during a cardiac cycle. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | Describe the phases of the ovarian and uterine cycles in human females. | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | Describe the anatomy of the respiratory system in humans. | CO1 | 13 |
| b. | Explain the consequences of smoking and its effects on the lungs. | CO3 | 7 |
|  | |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. |  | Describe the process of digestion of food within the human body. | CO3 | 20 |