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



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

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|  |  |  |  |
| **Code :** | **15BT2003** | **Duration :** | **3hrs** |
| **Sub. Name :** | **HUMAN PHYSIOLOGY AND ANATOMY** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Illustrate the structure of animal cell with diagram and highlight the functions of the cell organelles. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Describe the structure and functions of cell membrane. | CO1 | 10 |
| b. | Describe the mechanism of active and passive transport systems of cell membrane? | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Describe the composition of blood? | CO1 | 10 |
|  | b. | Illustrate the functions of blood? | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Describe the structure and compartments of heart? | CO1 | 10 |
|  | b. | Discuss the origin and flow of cardiac cycle? | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Describe the structure and functions of neurons? | CO1 | 15 |
|  | b. | Discuss about the conduction of action potential in neurons? | CO3 | 5 |
| (OR) | | | | |
| 6. | a. | Illustrate the physiology of human respiratory system. | CO2 | 14 |
|  | b. | How is oxygen and carbon-di-oxide transport carried out? | CO3 | 6 |
|  |  |  |  |  |
| 7. |  | Describe the structure and functions of kidneys? | CO1 | 20 |
| (OR) | | | | |
| 8. |  | Describe in detail about the endocrine system? | CO2 | 20 |
|  | |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. | a. | Describe the structure and functions of eye. | CO2 | 15 |
|  | b. | Discuss the importance of EEG and its functions. | CO2 | 5 |

ALL THE BEST