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



**End Semester Examination – Nov / Dec – 2019**

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| --- | --- | --- | --- |
| **Code :** | **17BT2001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BASICS OF BIOCHEMISTRY** | **Max. Marks :** | **100** |

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

|  |  |  |  |  |
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| **Q.**  **No.** | **Sub Div.** | **Questions** | **Course Outcome** | **Marks** |
| 1. |  | Write down the classification of Carbohydrates with examples. | CO1 | 20 |
| **(OR)** | | | | |
| 2. |  | Illustrate the structure and properties of the following sugars.  i) Lactose.  ii) Starch. | CO1 | 10  10 |
|  |  |  |  |  |
| 3. |  | Describe the classification of lipids in detail. | CO1 | 20 |
| **(OR)** | | | | |
| 4. |  | Elaborate on the properties of amino acids. | CO2 | 20 |
|  |  |  |  |  |
| 5. |  | How fatty acids are classified? Explain in detail. | CO3 | 20 |
| **(OR)** | | | | |
| 6. |  | Give an account on the structure of proteins in detail. | CO4 | 20 |
|  |  |  |  |  |
| 7. |  | Classify the various types of RNA. | CO5 | 20 |
| **(OR)** | | | | |
| 8. |  | Describe the double helical structure of Deoxyribo nucleic acid with a suitable diagram. | CO5 | 20 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Discuss the structure and functions of vitamin D in detail. | CO6 | 10 |
| b. | Write the biological importance of iron. | CO6 | 10 |