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| **DON BOSCO COLLEGE OF ENGINEERING – FATORDA**  Department of XXXXX  Internal test II  **Program:** Bachelor of Engineering [class / sem] **Time:**  **Course Name:** Name [code] **Date:**  **Max. Marks:** |

**DBCE/2018-2019/Ver1.1**

**Instructions:** (1) Marks and course outcome mapping is mentioned in square brackets

against each question.

(2) Assume data and state assumptions wherever necessary

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| **Q. No.** | **Questions** | **Marks** | **CO** | **BL** |
| **1** | Convert the following Matrix to Normal form and hence find the rank.  A = | **10** | **CO1** | **L3** |
| **2** | Find the values of λ and µ for which the following system has:  (a) unique solution  (b) no solution  (c) infinite solution  -2x + 5y - 2z = - 8 ; 4x + 8y + 12z = 10 ; x + 2y + λz = µ | **30** | **CO2** | **L2** |
| **3** | Find Eigen values and Eigen vectors of the following Matrix  A = | **05** | **CO3** | **L4** |
| **4** | Find Laplace Transform of:  (b) | **20** | **CO1** | **L3** |

**NOTE:**

**CO – Course Outcomes**

**1)**

**2)**

**3)**

**BL – Bloom’s Taxonomy Levels (L1- Remembering, L2- Understanding, L3 – Applying,**

**L4 – Analyzing, L5 – Evaluating, L6 -Creating)**

**Instructor In-charge Dept. IQAC Member H.O.D**

[Department Name] [Department Name] [Department Name]