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| Academic Year : 2020-21 | |
| Subject : Engineering Mathematics-III | |
| CLASS: Computer shift one | SEMESTER: Fourth |
| Assignment No. : 1 | Date of submission: |

Attempt any one of the following.

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Solve | 04 | Basic | C207.1 | 1,2,3,4,10,12 | 1,2 |
| 2 | Solve | 04 | Basic | C207.1 | 1,2,3,4,10,12 | 1,2 |

**Name & Sign of Subject In-charge**

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| Academic Year : 2020-21 | |
| Subject : Engineering Mathematics-III | |
| CLASS: Computer shift one | CLASS: **Computer shift one** |
| Assignment No. : 2 | Assignment No. : 1 |

Attempt any one of the following.

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Solve the integral equation: | 4 | Basic | C207.2 | 1,2,3,4,10,12 | 1,2 |
| 2 | Find z-transform of : i | 4 | Basic | C207.2 | 1,2,3,4,10,12 | 1,2 |

**Name & Sign of Subject In-charge**

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| Academic Year : 2020-21 | |
| Subject : Engineering Mathematics-III | |
| CLASS: Computer shift one | CLASS: **Computer shift one** |
| Assignment No. : 6 | Assignment No. : 1 |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Using fourth order R.K. method find when given that with  Take | 4 | Basic | C207.6 | 1,2,3,4,10,12 | 1,2 |
| 2 | Find value of for for the following set of values of and using Newton’s forward difference formula.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 0 | 1 | 2 | 3 | 4 | |  | 1 | 5 | 25 | 100 | 250 | | 4 | Basic | C207.6 | 1,2,3,4,10,12 | 1,2 |

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| Academic Year : 2020-21 | |
| Subject : Engineering Mathematics-III | |
| CLASS: Computer shift one | CLASS: **Computer shift one** |
| Assignment No. : 3 | Assignment No. : 1 |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | The first four moments of a distribution about 30.2 of the variable are 0.255, 6.222, 30.211 and 400.25. Find central moments and and. Also comment on skewness and kurtosis of the distribution. | 4 | Basic | C207.3 | 1,2,3,4,10,12 | 1,2 |

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| Academic Year : 2020-21 | |
| Subject : Engineering Mathematics-III | |
| CLASS: Computer shift one | CLASS: **Computer shift one** |
| Assignment No. : 4 | Assignment No. : 1 |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Apply Stoke’s theorem to calculate where C is the curve of intersection of | 4 | Basic | C207.4 | 1,2,3,4,10,12 | 1,2 |

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| Academic Year : 2020-21 | |
| Subject : Engineering Mathematics-III | |
| CLASS: Computer shift one | CLASS: **Computer shift one** |
| Assignment No. : 5 | Assignment No. : 1 |

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| 1 | A fair coin is tossed 600 times. Using normal distribution, find the probability of getting :  i) Number of heads less than 270 ii) Number of heads between 280 to 360  [ data : i) Area for Z>2.4495 = 0.0071428 ii) Area for Z>1.633=0.51551 iii) Area for Z>4.0823=0.000022518 | 4 | Basic | C207.6 | 1,2,3,4,10,12 | 1,2 |