**Annexure- II: Format of Answer Scheme**

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**SCHOOL OF ENGINEERING**

 **SOLUTION AND ANSWER SCHEME**

**Semester**: Summer Term

**Course Code:** MAT102

 **Course Name:** Engineering Mathematics-II **tics**

**Branch & Sem**:

**Date**: 06-08-2024

**Time**: 9.30 AM to 12.30 PM

**Max Marks**: 100

**Weightage**: 50%

**Date**:

**Time**:

**Max Marks**:

**Weightage**:

**Part A** (5Q x 2M = 10 Marks)

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| --- | --- | --- | --- |
| Q No | **Solution** | **Scheme of Marking** | **Max. Time required for each Question** |
| 1 | Definition Examples | 2 marks2 marks  | 8 minutes |
| 2 | Regression line x on yRegression line y on x | 2 marks2 marks  | 8 minutes |
| 3 | To get the value of the integral | 4 marks | 8 minutes |
| 4 | To get the value of the double integral | 4 marks | 8 minutes |
| 5 | Definition | 4 marks  | 8 minutes |
| 6 | RootsC.F | 2 marks2 marks  | 8 minutes |
| 7 | Eliminating constant aEliminating constant b | 2 marks2 marks  | 8 minutes |

 **Part B (**4Q x 5M = 20 Marks)

|  |  |  |  |
| --- | --- | --- | --- |
| Q No | **Solution** | **Scheme of Marking** | **Max. Time required for each Question** |
| 8 | TableFormulaR=0.97 | 6 marks2 marks2 marks | 16 minutes |
| 9 | Expressing as Beta functionEvaluating | 5 marks5 marks | 16 minutes |
| 10 | Finding $\vec{F} . d\vec{r}$Value of the integral | 6Marks4Marks | 16 minutes |
| 11 | Roots and C.FParticular Integraly = yc+yp | 4 marks5 marks1 mark | 16 minutes |
| 12 | Roots and C.FParticular Integraly = yc+yp | 4 marks5 marks1 mark | 16 minutes |
| 13 | Solution of ODESolution of PDEUsing initial conditions, solution of PDE | 4 marks2 marks4 marks | 16 minutes |

 **Part C** (2Q x 10M = 20 Marks)

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| Q No | **Solution** | **Scheme of Marking** | **Max. Time required for each Question** |
| 14 | TableRegression line y on xRegression line x on y | 5 marks5 marks5 marks | 20 Minutes |
| 15 | C.FFinding W, A and BSolution | 4 marks9 marks2 marks | 20 Minutes |
| 16 | Finding 1st order ODE’sSolutions of 3 different cases | 6 marks9 marks | 20 Minutes |