**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 marks  2 marks | 8 minutes |
| 2 | Regression line x on y  Regression line y on x | 2 marks  2 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 | Roots  C.F | 2 marks  2 marks | 8 minutes |
| 7 | Eliminating constant a  Eliminating constant b | 2 marks  2 marks | 8 minutes |

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

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| --- | --- | --- | --- |
| Q No | **Solution** | **Scheme of Marking** | **Max. Time required for each Question** |
| 8 | Table  Formula  R=0.97 | 6 marks  2 marks  2 marks | 16 minutes |
| 9 | Expressing as Beta function  Evaluating | 5 marks  5 marks | 16 minutes |
| 10 | Finding  Value of the integral | 6Marks  4Marks | 16 minutes |
| 11 | Roots and C.F  Particular Integral  y = yc+yp | 4 marks  5 marks  1 mark | 16 minutes |
| 12 | Roots and C.F  Particular Integral  y = yc+yp | 4 marks  5 marks  1 mark | 16 minutes |
| 13 | Solution of ODE  Solution of PDE  Using initial conditions, solution of PDE | 4 marks  2 marks  4 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 | Table  Regression line y on x  Regression line x on y | 5 marks  5 marks  5 marks | 20 Minutes |
| 15 | C.F  Finding W, A and B  Solution | 4 marks  9 marks  2 marks | 20 Minutes |
| 16 | Finding 1st order ODE’s  Solutions of 3 different cases | 6 marks  9 marks | 20 Minutes |