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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | E:\Blank format\AJU LOGO.jpg | | | | | | **1ST INTERNAL EXAMINATION** | | |
| Program Name | | **BACHELOR OF PHARMACY** | | Program Code | | | | **B.PHARM** | | |
| Course Name | | **REMEDIAL Mathematics** | | Semester | | | | **I** | | |
| Course Code | | **-------** | | Year | | | | **2023/ODD** | | |
| Time: 1 Hours | | **Answer Any ONE of Section A Answer Any FOUR of Section B** | | Maximum Marks | | | | **30** | | |
| Knowledge Level (KL) | | **K1 :** Remembering | **K3 :** Applying | | | **K5 :** Evaluating | | | | |
| **K2 :** Understanding | **K4 :** Analysing | | | **K6 :** Creating | | | | |
| **Section A**  **Answer any one out of two [1 x 10 = 10 Marks]** | | | | | | | | | | |
| **Q. No.** | **Questions** | | | | **Marks** | | **COs** | | **KL** | **PO** |
| **1(i)** | Express the Matrix A= as sum of symmetric and skew symmetric matrices. | | | | **10** | | **CO1** | | **K2** | **PO2** |
| **1(ii)** | If A= then prove that A2-2A+10I=0 | | | | **10** | | **CO2** | | **K2** | **PO2** |
| **Section B**  **Answer any FOUR out of SIX [4 x 5 = 20 Marks]** | | | | | | | | | | |
| **Q. No.** | **Questions** | | | | **Marks** | | **COs** | | **KL** | **PO** |
| **1** | Construct the matrix A of the order 3x3 having elements  = . | | | | **05** | | **CO2** | | **K5** | **PO1** |
| **2** | If A= Then prove that A2=. | | | | **05** | | **CO2** | | **K3** | **PO2** |
| **3** | Find the symmetric and skew symmetric matrices of Square matrix A=. | | | | **05** | | **CO1** | | **K2** | **PO2** |
| **4** | Define Symmetric and Skew Symmetric matrix with Example? | | | | **05** | | **CO3** | | **K2** | **PO2** |
| **5** | If then find the value of x. | | | | **05** | | **CO2** | | **K5** | **PO1** |
| **6** | Solve = . | | | | **05** | | **CO2** | | **K5** | **PO1** |

CO- Course Outcomes, KL- Knowledge Level, PO – Program Outcome

|  |  |  |
| --- | --- | --- |
| Course Outcomes | CO1 | Analyze the logic of a given problem |
| CO2 | Use branching control statements and iterative control statements using C++. |
| CO3 | Demonstrate the concepts of Reusability through the use of functions, Inheritance & Polymorphism |
| CO4 | Analyze the problem statement and decide the logic to solve the problem using C++ Programming. |



