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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)** | Evaluate $\lim\_{x\to 2}\frac{x^{2}-4}{\sqrt{3x-2}-\sqrt{x+2}}.$ | **10** | **CO1** | **K2** | **PO2** |
| **1(ii)** | Find the partial fractions of $\frac{x+1}{\left(x+2\right)\left(x+3\right)\left(x-1\right)}$ | **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** | Evaluate the value of $\lim\_{x\to 0}\frac{(sin2x+3x)}{(2x+sin3x)}$ | **05** | **CO2** | **K5** | **PO1** |
| **2** | Prove that log10+2log3-log2=log45  | **05** | **CO2** | **K3** | **PO2** |
| **3** | Find the partial fraction of$\frac{2x+3}{(x+3)(x+1)}$ | **05** | **CO1** | **K2** | **PO2** |
| **4** | If f(x) = x × sin (1/x), x ≠ 0, then find Limx→0 f(x). | **05** | **CO3** | **K2** | **PO2** |
| **5** | **If f(x)= x3+2x2+3x+4 find f(2x+1).** | **05** | **CO2** | **K5** | **PO1** |
| **6** | Evaluate $\lim\_{x\to 4}\frac{x^{4}-64}{x^{2}-16}.$ | **05** | **CO2** | **K5** | **PO1** |

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

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| 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. |



