

Level	BA/ADMS/B.Ed	Semester	Autumn 2023
Subject/Course Code	Business Mathematics (1429)	Maximum Marks	100
Maximum Time	03 Hours	Pass Marks	BA: 40 ADMS/B.Ed: 50
Medium of Instructions	English		

NOTE: Attempt any FIVE questions

Q.No.	Questions	Marks
1.	<p>a) A patient in a hospital is required to have at least 84 units of drug A and 120 units of drug B each day (assume that an over dosage of either drug is harmful). Each gram of substance M contains 10 units of drug A and 8 units of drug B, and each gram of substance N contains 2 units of drug A and 4 units of drug B. How many grams of substances M and N can be mixed to meet the minimum daily requirements?</p> <p>b) Solve: $(7x - 12) = (4 - 3x)$</p>	10+10
2.	<p>The annual profit for a firm depends upon the number of units produced. Specifically, the function which describes the relationship between profit P (Stated in dollars) and the number of units produced x is $P = -0.01x^2 + 5,000x - 25,000$</p> <p>(i) Determine the number of units x which will result in maximum profit.</p> <p>(ii) What is the expected maximum profit?</p>	20
3.	<p>Solve graphically and check your answer algebraically.</p> $-x + 3y = 2$ $4x - 12 = -6$	20
4.	<p>Find A^{-1} and show that $AA^{-1} = I$, if</p> $A = \begin{bmatrix} 2 & 3 & 0 \\ 1 & 2 & 3 \\ -8 & 5 & -5 \end{bmatrix}$	20
5.	<p>Determine the location and values of the absolute maximum and absolute minimum for the given function:</p> $f(x) = (-8x + 7)^4, \text{ where } 0 \leq x \leq 2$	20
6.	<p>Find $f(x)$, $f'(x)$, $f''(x)$, $f'(1)$, $f'(5)$ and $f''(5)$ when $f(x) = \frac{2x}{x^2+1}$</p>	20
7.	<p>For a given function</p> $f(x) = x^4 + x^2 + 10$ <p>(i) Find those open intervals over which the function is concave up, concave down.</p> <p>(ii) Find all points of inflection.</p>	10+10
8.	<p>Define critical point, point of inflection. Find all relative extrema, using First Derivative Test. Sketch a graph of the function.</p> $f(x) = \frac{x^2}{x-1}$	20

Mathematics Syllabus D Code 4029 Past Papers

RJ Shavelson



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