

UUCMS. No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

B.M.S COLLEGE FOR WOMEN, AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – SEPTEMBER-2023

BBA – II Semester

BUSINESS MATHEMATICS
(NEP Scheme 2022-23 onwards F+R)

Course Code: BBA2DSC06B
Duration: 2 ½ Hours

QP Code:2028
Max. Marks: 60

SECTION-A

1. Answer any FIVE of the following questions. Each question carries TWO Marks. (5X2=10)

- What are Rational numbers?
- What is an Equation?
- Find the 10th term of the sequence 3,5,7,9...
- What is Banker's Discount?
- A man can do 12 pencils in 15 minutes. How long will it take him to turn out 96 pencils?
- Find the value of $\log_3 9$.
- Evaluate $\begin{vmatrix} 2 & 4 \\ -5 & -1 \end{vmatrix}$

SECTION- B

Answer any FOUR of the following question. Each question carries FIVE Marks. (4X5=20)

- Find the larger number that can exactly divide 513, 783 & 1107?
- Solve $\frac{3x}{4} - 8 = \frac{2x}{5} + 3$
 - 4
 - 5
- A man saved ₹ 16,500 in 15 years. In each year after the first, he saved ₹ 100 less he did in the preceding year. How much did he save in the first year?
- Find the Compound interest ₹ 3,000 for 3 years at 4% p.a.
- Use Cramer's rule to solve the following equation for x and y
 - $x - 16 = 2y$
 - $3x + 1 = -y$

SECTION- C

Answer any TWO of the following question. Each question carries TWELVE Marks. (2X12=24)

6. Solve by formula method $\frac{1}{x-2} + \frac{2}{x-1} = \frac{6}{x}$
7. Find TD, BD and BG on ₹ 600 due 4 years hence at 5% p.a
8. The price of 4 mathematics books, 2 Accounting, 3 Computers books is ₹ 134. The cost of one mathematics, 3 Accounting, 2 computers books is 81 and the cost of 2 mathematics books, 1 Accounting and 5 computers books is ₹ 130. Find the rate per book of each.

SECTION-D

Answer any ONE of the following questions, carries SIX Marks. (1X6=06)

9. State the various laws of indices and Logarithms
10. Mr. Ramesh borrows Rs.6,000 upon a contract to repay the same in 20 equal monthly instalments beginning with the end of the first month. Determine the Monthly payment charging interest at 10% p.a. compound.
