Reg No:.....

Second Semester FYUGP Management Studies Examination APRIL 2025 (2024 Admission onwards) KU2DSCBBA104 (BUSINESS MATHEMATICS)

(DATE OF EXAM: 30-4-2025)

Tim	e : 120 min	Maximum Mark	s: 70
1	Part A (Answer any 6 questions. Each carries 3 mark	s)	
1	. What is the simple interest on $6,000$ for 2 years at 7% per	annum?	3
2.	What is appreciation?	22	3
3.	What is depreciation?		3
4.	How to calculate the n th term of AP?		3
5.	How to calculate the sum of n terms of an AP?		3
6.	What is Geometric Progression?		3
7.	What do you mean by equal matrices?		3
8.	Construct a 2x2 matrix whose elements are given by $a_{ij} = i$	/j	3
	Part B (Answer any 4 questions. Each carries 6 ma	rks)	
9.	A person deposits Rs 12,000 in a bank at 7% per annum compound interest for 5 years. Calculate the total amount.		
10.	Calculate the compound interest on Rs 20,000 for 1.5 years at 10% per annum compounded half- yearly.		
11.	The total marks obtained by two students are in the ratio 3:4. If the first student scored 270 marks, find the marks of the second student.		
12.	Find the number of terms in the sequence 72,67,62		6
13.	Find the 7 th term of the geometric sequence 1,-3,9,-27		6
14.	Find the 1 st term of the GP whose 5 th term is 3 and com-	mon ratio ½.	6
	Part C (Answer any 2 question(s). Each carries 14 r	narks)	
15.	Solve $x-y = 2.2x^2 + 5y^2 = 23$		14
16.	In a perfect competition, the demand curve of a commodity is $D = 19-3p-p^2$ and supply curve is $S = 5p - 1$. For equilibrium $D = S$. Find equilibrium price and equilibrium quantity.		
17.	Explain various types of matrices.		14