## SHRI RAMSWAROOD MEMORIAL UNIVERSITY

## **End Semester Examination (2021-22)-Odd Semester**

B.Pharma – I Year (I Sem)														
Course Name: Remedia	Course Name: Remedial Mathematics							Code: BP106RMT						
Time: 1 ½ Hours											Max	x Ma	arks	: 35
University Roll No.														
		l			l	1		(1	o be	fille	ed by	the	Stu	dent)

## Note: Please read instructions carefully:

- a) The question paper has 03 sections and it is compulsory to attempt all sections.
- b) All questions of Section A are compulsory; questions in Section B and C contain choice.

Section A: Short Answer Type Questions Attempt any 05 out of 07 questions.			CLO	Marks (25)
1.	If $f(x) = x^2 + 5x - 14$ , find $f(1)$ , $f(-1)$ , $f(0)$ , and $f(2)$ .	BL3	CLO2	05
2.	Define singular matrix with example.	BL2	CLO1	05
3.	Form matrix $A = [a_{ij}]; \ 1 \le i \le 2, 1 \le j \le 3 \text{ where } a_{ij} = \frac{(1-j)^2}{4}$	BL3	CLO2	05
4.	For the matrices $A = \begin{bmatrix} -2 & 1 \\ 3 & 0 \\ 1 & 5 \end{bmatrix}$ , $B = \begin{bmatrix} 1 & 1 & -2 \\ 4 & 0 & -5 \end{bmatrix}$ .	BL3	CLO2	05
	Find AB			
5.	Find $L(\cos 5t)$	BL3	CLO2	05
6.	Find the derivative of the function given by $f(x) = (5x - 3)^2$	BL3	CLO2	05
7.	Integrate $\int (x + \frac{1}{x})^2 dx$	BL3	CLO2	05
	ion B: Long Answer Type Questions mpt any 01 out of 02 questions.	BL CLO		Marks (10)
1.	Using matrices, solve the following system of linear equation $3x + 4y = 5$ $x - y = -3$	BL3	CLO2	10
2.	Solve $\frac{dy}{dx} + \frac{1}{x}y = x^3 - 3$	BL3	CLO2	10

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