		sem III / z-T. / 29-05-09 / GUI & D.B.M.	
	11 444	100 83-09. (REVISED COURSE) VR-3396	
		(3 Hours) [Total Marks 100	
N.B.	.: (1 (2 (3	in the state of th	
1.	(a) (b) (c)	Explain time-stamp ordening protocol and Thoma's Write Rule. Give use of msybox, inpute box. Explain with example. State and explain use of OLE.	10 2 2 6
2.		 Courses including number title, syllabus and credits and prerequisites Course offerings including course number year, semester, section number, instructor timing, classroom alloted. Student including id, name and program Instructors including number, name department and title Enrolment of student in courses and grade awarded to student must be appropriately modeled. Explain following terms: two-phase locking protocols graph based protocols. 	10
3.	(a) (b)	Explain log-pased and checkbolin based recovery moonamen in passes	10 10
4.	(a)	Write a code to create color selection menu by using Menu Editor.	8
		color & Blue Red Gren	
	(b)	Your code should apply the selected color for the background. What is SQL ? Explain the following structures of SQL queries with appropriate example: (i) Select clause (iv) Agregate function (ii) Where clause (v) With clause (iii) From clause	12
5.	(a)	Explain following relational algebra operators with example— (i) Rename (iv) Cartesian product (ii) Set-difference (v) Assignment (iii) Outer joint	10
	(b)	What are the standard used for GUI. Write short note on icon and graphics.	5 5

