STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086

(For candidates admitted during the academic year 2019-2020 and thereafter)

SUBJECT CODE: 19CS/MC/FD45

B.C.A.. DEGREE EXAMINATION APRIL 2023 FOURTH SEMESTER

COUR		MAJOR CORE				
PAPEI		FUNDAMENTA	LS OF DAT	TABASE N		
TIME	:	3 HOURS	CTION A		1	MAX. MARKS: 100
Answe	r all the questi		CHONA			(20 X 1=20)
	the best answ					
	_	nceptual schema				
	a. Logical da	ta independence	b. Physica	l data inde	pendence	c. Both a and
	b					
	d. None of the	e mentioned				
2.	The state that	satisfies all the co	onstraints is	called		
a.	Complete stat	te b. Invalid s	tate	c. Valid sta	te d. In	complete state
3.	is a coll	ection of entities	that have th	ne same at	tributes.	
a.	Entity value	b. Entity se	t c. Entity	/ type	d. Tuple	
4.	Entity that do	es not belong to	any of the s	ub class is	called	specialization
	a. Total	b. Partial	c. Com	plete	d. Invalid	
5.	The duplicate	tuples are elimin	ated throug	h k	eyword in S	QL.
	a. Distinct	b. Except	c. Uniq	jue d.	Both a and	lb
6.	opera	ation selects certa	in columns	from the t	able	
	a. Display	b. Project		c. Set	d. Sele	ect
7.	The data that	is stored in the co	ursor is calle	ed		
	a. Data	b. Mas	ster data se	t c. Acti	ve data set	d. None of the
	mentioned					
8.	Second norm	nal form is based	on the conc	ept of		
	a. Full function	onal dependency	b. Transit	ive depend	dency c. B	oth a and b
	d. Partial func	tional dependend	Cy			
9.	refers to	problems that i	nclude thef	t, sabotag	e fire, etc.	
	a. Catastropl	nes b. Local er	rors c.	Fact failur	e d. Bot	th b and c
10.	The DBMS ha	sto keep tra	ck of locks			
	a. Lock mana	ager b. Lock	table c.	Lock mana	ager sub sys	tem
	d. None of the	e mentioned				

Fill in the blanks

11.	job involves the day to day use of large database.
12.	ne description of a database table is called
13.	necommand is used to change the values of one or more attributes.

14 att	ributes are not divisible.					
	onsidered as virtual table.					
16 join dis	plays every tuple in the first relation R.					
17 are	typed directly on an interactive interface f	or execution.				
18. Thesection	on in PL/SQL describe processes that have	e to be applied to table data.				
19. The size of the	e data item is called its					
20happ	ens if the transaction has ended unsucces	sfully.				
		2				
	/2/	19CS/MC/FD45				
	SECTION D					
Answer all the questi	SECTION B	$(5 \times 2 = 10)$				
21. Define schema		(3 X 2 10)				
	ose of foreign key.					
	se cursor in PL/SQL?					
24. What is data i						
25. Outline Seriali						
	SECTION C					
Answer any EIGHT		$(8 \times 5 = 40)$				
26. Elucidate the f	functional components of database syster	n.				
27. Describe the concept of client/server model.						
28. Illustrate the c SQL.	difference between DELETE, TRUNCATE ar	nd DROP statements in				
29. Demonstrate	the different SET operations.					
30. Explain about	aggregate functions in SQL.					
31. Explain 1NF,2N	IF and 3NF in detail.					
32. Write about d	ifferent join operations.					
33. How to handle	e the unexpected errors? Explain.					
34. Write a note o	on procedures.					
35. Discuss briefly	the backup and recovery procedures in t	he transaction process.				
	SECTION D					
Answer any THREE	E questions	$(3 \times 10 = 30)$				
37. Write about d 38. What is view? 39. Examine the s	aints and its types. Discuss the importance ifferent types of attributes in ER model. She How are views implemented? ignificance of triggers in SQL with an exarchase Locking Protocol.	now the notation of each.				
