BRIKS AQCADEMY PADMANABHANAGARA 23-24 MODEL

PAPER

II PUC MODEL PAPER - 4

Time: 3:15mins. Max. Marks: 70 **Subject: COMPUTER SCIENCE**

PART - A

_			m the choices g			1 X 20 = 20
1.	a) SRAM b) primary memory The expression Y = (A+B)(B+C)(C+A) shows the a) POS b) SOP			1)	d)registers d)NOR	
0				d)reg		
2.			-	1) 3.1.0		
0			c)NAND	d)NC		
3.	The only gate that has only one input and one ou		=			
4	a)NOT b) X-NOR		c) AND	d)OF	C	
4.	Which condition indicates queue is empty?) C	11 1) C	1)6	
_	a)rear = null b)front = rear Class body is enclosed in pair of		c)front = n	all d)fro	ont = n-1	
5.			·,	10	1)	
_	a)()	b)[]		c){}	d)<>	
6.		be overloaded whe	en	1 \ ,1 1 , ,	C	1:00
	a) Function names are sameb) c)number of parameters are different			b) the data types of parameters are different		
7		=		,	ve.	
1.		uctors are used to	=		1) C.(1	1
0		b)default				e above
8.		or shows the deriva		e class in inheri		
0	a)::	•	c);	C.1 1: .	d) "	
9.	a)new b)delete c)this pointer that holds the addres c)this pointer					
1.0				er	d)none of the	e above
10		of database system				4) 44 0.4
			•	- '	_	d) all of the above
11		owing SQL stateme	nt, what type of st	atement is this	,	
	Select * from		\D. GT	1150	-	
	a)DDL		c)DCL	•		
12	=	protocol used when				er?
	•	b) FTP	c)TCP/IP	d)SM		
13	_	nent where all data	•	-		•
	, , ,	gy b)star topology	, <u>-</u>	,		
14		t of protocols that		-	_	th URLs.
	•	b)HTTP	•	d)TC	P/IP	
15	_	h links the address				
	a) <a>	b) <anchor></anchor>	c) <address></address>	d) <h:< td=""><td>ref></td><td></td></h:<>	ref>	
TT 15:	ll in the blank	ra abaasing the en	managinto mond/r	rords from the	aa airran in he	ackets.(Repeated answer
	not be consid	-	propriate word, v	vorus from tho	se given in bia	ckets.(Repeated answer
WIII	not be consid	ereuj				
			s,DBA,ISAM,datal	saaa daadamamal		
	(randon	n access,end users	s,DDA,ISAM,uatai	base designers)		
16	·	onsible for authoriz				

18. _____ are querying, updating and generating reports in database. 19. ____ file organization allow immediate direct access to individual records on the file. 20. The records with in the file are stored sequentially but direct access to individual records is possible through____. PART - B III. Answer any FOUR of the following. $2 \times 4 = 8$ 21. Explain types of motherboard: 22. Construct a truth table for three variables x,y,z that will have output 1, when xyz=100, xyz=110, xyz=111. Write Boolean expression for logic network in SOP form 23. Define tautology and fallacy. 24. What is queue? Mention different operations performed on queue. 25. What is entity and attribute? 26. Classify and explain servers. 27. List the services of e-commerce. 28. What is tellg() and tellp(). PART - C IV. Answer any FOUR of the following. $3 \times 4 = 12$ 29. Write about opening a file using constructors. 30. Write a note on URL. 31. Explain the use of new and delete operator in C++ with syntax and example? 32. State and prove De-Morgan's laws algebraically. 33. State and prove absorption law. 34. What is a bus? Explain the types of bus. 35. Explain free software and open source software. 36. Explain memory representation of one dimensional array. PART - D V. Answer any SIX of the following. $5 \times 6 = 30$ 37. Differentiate between OOP and POP. 38. Write an algorithm to perform PUSH and POP operation on a stack. 39. Explain class definition and class declaration with syntax and example. 40. What is visibility mode? Explain types. 41. Explain default constructor with syntax and example. 42. State and prove associative laws using truth table. 43. What are virus? Mention the characteristics/symptoms of virus. 44. Write the applications of stacks. PART-E VI Answer any two questions. Each question carries FIVE marks. $5 \times 2 = 10$

45. Given the Boolean function $f(X,Y,Z)=\sum (0,2,4,5,6)$, reduce using K-MAP and also draw

the logical diagram for reduced expression

47. What is function overloading? Explain with suitable example.

46. Explain SQL built-in functions.