SHETH CN ENGLISH MEDIUM SCHOOL PRACTICE PAPER - 3 (Term-2)

Marks:-35

Time:-2 Hrs

Computer Science (083)

STD: XII

Date: - 21/02/2022

Section -A **Each question carries 2 marks** Q. Question **Part** Mark No No. S Write an algorithm for pop operation in stack (2) 1. 2. (i) Expand the following: (1) POP, HTTP (ii) Write one advantage of star topology over bus topology. (1) What is the difference between degree and cardinality of atable? 3. (2) What is the degree and cardinality of the following table? Write the code to create the connection in which (2) 4. database's name is Python, name of host, user and password can taken by user. Also, print that connection.

		,	COURSE give	en below:			
		Table: COURS	E				
		CID	CNAME	FEES	STARTD	ATE	TID
		C201	AGDCA	12000	2018-07	-02	101
		C202	ADCA	15000	2018-11	-15	103
		C203	DCA	10000	2018-10	-01	102
		C204	DDTP	9000	2018-09	-15	104
		C205	DHN	20000	2018-11	-01	101
		C206	O LEVEL	18000	2018-07	-25	105
•	(i) (ii)					in a data	abase
			TA	BLE: FACU	LTY		
		F_ID	F_Name	Hire	e_date	Salary	
		102	Amit	12-1	10-1998	12000	
		103	Nitin		12-1994	8000	
		104	Rakshit		5-2001	14000	
		105	Rashmi	11-9	9-2004	11000	
		103	Sulekha		2006	10000	

	Table: GAMES GCode GameName Number PrizeMoney ScheduleDate 101 Carom Board 2 5000 23-Jan-2004 102 Badminton 2 12000 12-Dec-2003 103 Table Tennis 4 8000 14-Feb-2004 105 Chess 2 9000 01-Jan-2004 108 Lawn Tennis 4 25000 19-Mar-2004				-2004 c-2003 o-2004 -2004				
	1 2 3 4 5 (i) W	the above tables.							
	SECTION - B Each question carries 3 marks								
8.	Pramod has created a dictionary containing EMPCODE and SALARY as key value pairs of 5 Employees of Parthivi Constructions. Write a program, with separate user defined functions to perform the following operations: • Push the keys (Employee code) of the dictionary into a stack, where the corresponding value (Salary) is less than 25000. • Pop and display the content of the stack. For example: If the sample content of the dictionary is as follows:							(3)	

		EMP={"EOP1":16000, "EOP2":28000, "EOP3":19000,	
		"EOP4":15000, "EOP5":30000}	
		The output from the program should be: EOP4 EOP3 EOP1	
		OR	
		Aryan has a list containing 10 integers. You need to help him create a program with separate user defined functions to perform the following operations based on this list. • Traverse the content of the list and push the odd numbers into	
		a stack.Pop and display the content of the stack.	
		For Example:	
		If the sample Content of the list is as follows:	
		Num=[31, 55, 76, 89, 21, 45, 76, 68]	
		Sample Output of the code should be:	
9.	(i)	45 21 89 31	(1)
9.	(i)	A table, PERSON is created with following attributes:	(1)
		P_Id LastName FirstName Address City	
		Give the SQL command to insert a new row in the PERSONS table.	
	(ii)	Differentiate between ALTER and UPDATE commands in	(2)
	(11)	SQL	(2)
10.		Write the queries for the following questions using the table	(3)
		Product with the following fields, under the database STORE.	
		(P_ Code, P_Name, Qty, Price)	
		(i) Create a database STORE	
		(ii) Display the price of product having code as P06.	
		(iii) Display the name of all products with quantity greater than	
		50 and price less than 500.	

	Section C Each question carries 4 marks									
11.	Write queries (a) to (d) based on the tables Sender and									
	Recipients given below: Sender									
	Sender	SenderID SenderName SenderAddress Sendercit			dercity					
	ND01	R Jain	2, 1	2, ABC Appls 12 Newtown		v Delhi				
	MU02	H Sinha				Mumbai				
	MU15	S Jha	27	/A, Park Street	Mur	nbai				
	ND50	T Prasa	id 12	2-K,SDA	New	v Delhi				
		SenderID	RecName	RecAddress		recCity				
		ND01		5, Central Avenu		Kolkata				
		MU02	S Mahajan	116, A-Vihar		New Delhi	-			
	MU19 MU32	MU15	H Singh P K Swamy	2A, Andheri East B5, C S Terminal		Mumbai Mumbai	-			
		ND50	S Tripathi	13, BI D Mayur Vihar		New delhi				
				enders from Mumb						
	(b) To d	lisplay the R	lecID, Sender	name, SenderAddr	ess, Re	ecName,				
	Rec	Address for	every Recipie	ent						
	(c) To c	lisplay Recip	oient details i	n ascending order	of Rec	Name				
	(d) To d	display numl	ber of Recipie	ents from each city						

12.	(i)	Give two advantages and two disadvantages of Radiowave OR	(2)				
		Define the following terms: Modem, Bluetooth					
	(ii)	What is the difference between star topology and bus topology of network?	(2)				
13.		Shiva Multi Tech Corporation (SMTC) has set up its new center at four offices for web based activities. The 4 blocks of buildings are as shown in the diagram below:					
		Block A Block C					
		Block B					
		Center to center distances between various blocks					
		Number of Computers					
		 (a) Which of the following devices will be suggested by you to connect each computer in each of the block? • Gateway • Switch • Modem . (b) Suggest the most suitable place (i.e. block) to house the server of this organisation with a suitable reason. (c) What will be the best possible connectivity out of the following, you will suggest to connect the new setup of offices in Bengalore with its London based office? • Infrared • Satellite Link • Ethernet Cable (d) Company is planning to connect its Block in Hyderabad which is more than 20 km. Which type of network will be formed? 					