

## SRI RAMAJAYAM GLOBAL SENIOR SECONDARY CBSE SCHOOL POLUR, TIRUVANNAMALAI-TAMILNADU.

## **REVISION EXAM-2**

STD: XII MAXIMUM MARKS: 35

SUBJECT: COMPUTER SCIENCE (083)

TIME: 2 HOURS

**DATE: 29.03.2022** 

## **General Instructions:**

- The question paper is divided into 3 sections A, B and C
- Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- Section C, consists of 3 questions (11-13). Each question carries 4 marks.
- Internal choices have been given for question numbers 7, 8 and 12.

Section -A						
Each question carries 2 marks						
Q. No	Part No.	Question	Marks			
1.		Give any two characteristics of queues.	(2)			
2.	(i)	(i) Expand the following: PPP, POP3	(1)			
	(ii)	Out of the following, which is the fastest wired and wireless medium of transmission?  Twisted Pair Cable, Coaxial cable, optical fibre, Radio wave, Ethernet cable.	(1)			
3.		Name 4 Data types used to store Numeric data in Databases?	(2)			
4.		A resultset is extracted from the Customer table using the cursor object (that has been already created) by giving the following statement.  Rec_Data=cursor.fetchall()  (a) How many records of the table will be returned by fetchall() method?  (b) What will be the datatype of Rec_Data object after the given command is executed?	(2)			

		Table: Sportstars						
		Admn_No	Name	DOB	Sport	Medals	Class	
		V1237	Vanshika	2005-02-19	Tennis	3	11	
		S1432	Ruhaani	2005-09-11	Football	5	12	
		SM1781	Aalam	2005-07-01	Cricket	4	11	
		V1935	Manan	2005-04-07	Football	6	11	
		S1276	Aarav	2005-10-06	Tennis	4	12	
		SM1872	Rehaan	2004-12-11	Football	3	12	
		c) SELECT d) SELECT "SM%"					n_No LIKE	
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		d) SELECT "SM%"  Which comother object What are Selection in the selection	mand delets in the daQL Joins? The Table Cu	om Sports  etes an enti- etes an enti- etabase?  ustomers g	re table, a	ere Admi	table or  Salary 80000.00	
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		d) SELECT "SM%"  Which comother object What are So  Consider the  ID  1  2  3  4  5  6  8  9	mand delets in the date QL Joins? The Table Cut Name Kashill Anupre Vijaya Krishn Harst Cliffor Jaish	om Sports  etes an entire atabase?  astomers g  an	re table, a	W:  City  Jammu Shimla Hyderabad Chennai Gandhinagar Mumbai Chennai Mumbai	Salary 80000.00 75000.00 65000.00 85000.00 45000.00 65000.00 85000.00	

			(0)	OR)				
		Write the outp	ut of the queries (a	a) to (d) based	on the table			
		-	CH, given below:	a) to (a) oasea				
				RTWATCH				
		WATCHID	NAME	PRICE	QTY_STORE			
		W1	Fitbit Versa	21000	100			
		W2	Apple Watch	55000	150			
		W3	Garmin Fenix	75000	50			
		W4	Fitbit Versa	21000	100			
		W5	Samsung Galaxy	27000	200			
		W6	Amazfit Watch	17000	100			
		W7	Fossil Hybrid	15000	50			
		NAME IN ("Fit ) SELECT MAX(F	100;  QTY_STORE) FROE bit Versa", "Fossil H PRICE)+ MIN(PRICE PRICE) FROM SMA	ybrid"); E) FROM SMAI				
			SECTIO					
			Each question ca	arries 3 mark	S			
8.	Coach Abhishek stores the races and participants in a dictionary Write a program, with separate user defined functions to perfort the following operations:							
	•	1 Push the nar stack, where t		of the dictionary onto a an 100.				
	•	✓ 1 Pop and display the content of the stack. For example:						
	I	If the sample content of the dictionary is as follows:  Races ={100:'Varnika', 200:'Jugal', 400:'Kushal', 800:'Minisha'}						
	R							
		The output from the program should be:  Minisha Kushal Jugal						
	o ii h	of numbers, from nto a queue imp	in Python ENQ(E in which we will blemented by using e element, otherw	venlist), where enqueue all the g a list. Displa	he even numbers ay the queue if it			

9.	(i)	following fiel	ents has been creds: AME, DOB, CI		pase with the	(2)			
		Give the SQL command to change the datatype of CITY from Varchar(30) to Char(30).							
	(ii)	Which of the following is a DML command? SELECTFROM, CREATE TABLE, NSERT, UPDATE							
10.	Maniklal Fabrics is creating a database called Stores with a tab called City_Store. Write the SQL commands for doing the sam								
		S	itore_id	IN	IT Primary Key				
		N	Manager		Varchar(20)	(3)			
		,	Address		Varchar(30)				
		C	City ity_Code		Varchar(20) Char(5)	-			
					Date				
	Last_update Date								
			Se	ection C					
			Each question	on carries 4 ma	arks				
11.		Write the SQL statement to display all the information asked in							
		queries (a-d) based on the tables below:							
		SALESPERSON TABLE							
		salesperson_id	name	city	incentive				
		1001	Nitin Jairam	Delhi	0.12				
		1002	Gaurav Jha	Kolkata	0.13				
		1007	Vinita S	Hyderabad	0.11				
		1003	Jockim Lobo	Bangalore	0.15				
		1005	Arun Mehta	Bhopal	0.14				
		1006 Vinny Noom Mumbai 0.12							

		ORDER TABLE					
	order_No	purch_amt	order_date	customer_id	sales person_id		
	30001	1500	2019-10-15	2002	1003		
	30002	2400	2019-09-05	2005	1002		
	30003	2100	2019-11-25	2001	1007		
	30004	3200	2019-10-07	2006	1003		
	30005	3520	2019-08-12	2003	1005		
	30006	2600	2019-03-01	2004	1007		
	30007	2100	2019-11-25	2007	1001		
	30008	3200	2019-10-07	2006	1003		
	30009	3520	2019-08-12	2003	1005		
	30010	2600	2019-03-01	2001	1007		
2.	c) Write a sort the incention d) Write a of purc	result in an ve. n SQL staten h_amount fro	play all the coascending ordent to displace om order table	der by the na ny salesperso e grouped by	me and n_id and sum customer_id.		
	topolo	topologies.					
	` ' ` ' '			and wheless			
	Transi	nission Med					
		(OR) (i) Define the following terms: Bandwidth, IP address					
	(ii) How are I	Radio Waves	and Microwa	aves differen	t?		

13.	National Skill Training Academy has for wings A, B, C, D Distance between various wings are given below:					
	Wing A to Wing B-100m Wing A to Wing D-400m Wing B to Wing D-100m Wing C-200m Wing B to Wing C-300m Wing C to Wing D-450m					
	Number of Computers installed at various wings are as follows:					
	Wing A-20 Wing B-150 Wing C-50 Wing D-25					
	(i) Suggest the best wired medium and the cable layout to efficiently connect various wings of National Skill Training Academy.	4)				
	(ii) Name the most suitable wing where the Server should be installed. Justify your answer.					
	(iii) Suggest a device/software and its placement that would provide data security for the Academy.					
	(iv) What will be needed to provide wireless Internet access to all smartphone/laptop users in the Academy?					

\*\*\*All the Best\*\*\*