



SRI RAMAJAYAM GLOBAL SENIOR SECONDARY CBSE SCHOOL

REVISION EXAM – 1 (SET-1)

STD: XII

MAXIMUM MARKS: 35

SUBJECT: COMPUTER SCIENCE (083)

TIME: 2 HOURS

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 and 12.

Section -A Each question carries 2 marks			
Q. No	Part No.	Question	Marks
1.	(i)	Define any two operations in STACKS?	(1)
	(ii)	Define the term OVERFLOW in STACKS?	(1)
2.	(i)	Expand the following: a) ARPANET b) VoIP	(1)
	(ii)	What is NIC? Give other name of NIC.	(1)
3.		Differentiate between char(n) and varchar(n) data types with respect to databases.	(2)
4.		A resultset is extracted from the database using the cursor object (that has been already created) by giving the following statement. Mydata=cursor.fetchall() (a) How many records will be returned by fetchall() method? (b) What will be the datatype of Mydata object after the given command is executed?	(2)

5	<p>Write the output of the queries (a) to (d) based on the table, Furniture given below:</p> <p style="text-align: center;">Table: Student</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>RollNo</th> <th>Name</th> <th>Subject</th> <th>Marks</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>Ram</td> <td>English</td> <td>78</td> <td>B</td> </tr> <tr> <td>1002</td> <td>Shyam</td> <td>Hindi</td> <td>89</td> <td>A</td> </tr> <tr> <td>1003</td> <td>Karan</td> <td>SST</td> <td>67</td> <td>C</td> </tr> <tr> <td>1004</td> <td>Rajan</td> <td>Science</td> <td>98</td> <td>A+</td> </tr> <tr> <td>1005</td> <td>Shaan</td> <td>Computer</td> <td>81</td> <td>B</td> </tr> </tbody> </table> <p>a) SELECT * FROM Student WHERE Grade = 'B' ;</p> <p>b) SELECT MAX(Marks) FROM Student;</p> <p>c) SELECT Name, Marks FROM Student WHERE Subject IN ('English', 'Science')</p> <p>d) SELECT RollNo, Subject FROM Student WHERE Marks >= 85;</p>	RollNo	Name	Subject	Marks	Grade	1001	Ram	English	78	B	1002	Shyam	Hindi	89	A	1003	Karan	SST	67	C	1004	Rajan	Science	98	A+	1005	Shaan	Computer	81	B	(2)
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6.	<p>What is the use of wildcard? What are the types? Explain.</p> <p style="text-align: center;">(or)</p> <p>KV is making the data base of students for that data is stored in list stack form but the code is not complete , complete the code as per your knowledge and make the software run:</p> <pre style="margin-left: 40px;"> std=[] def push(std): n=int(input("name of student")) r=int(input("rollnoof student")) c=int(input("class")) _____ #statement 1 std.append(temp) def pop(std): _____ # statement 2 print("No Record") else: print("Deleted Record is :", std.pop()) </pre> <p>(i) Write code for statement 1</p> <p>(ii) Write code for statement 2</p>	(2)																														

7.	(i)	<p>Consider the table, CLUB given below:</p> <p>Table: CLUB</p> <table border="1" data-bbox="391 213 1288 620"> <thead> <tr> <th>COAC H_ID</th> <th>COACHNAME</th> <th>AGE</th> <th>SPORTS</th> <th>DATOFAPP</th> <th>PAY</th> </tr> </thead> <tbody> <tr><td>1</td><td>KUKREJA</td><td>35</td><td>KARATE</td><td>27/03/1996</td><td>10000</td></tr> <tr><td>2</td><td>RAVINA</td><td>34</td><td>KARATE</td><td>20/01/1997</td><td>12000</td></tr> <tr><td>3</td><td>KARAN</td><td>34</td><td>SQUASH</td><td>19/02/1998</td><td>20000</td></tr> <tr><td>4</td><td>TARUN</td><td>33</td><td>BASKETBALL</td><td>01/01/1998</td><td>15000</td></tr> <tr><td>5</td><td>ZUBIN</td><td>36</td><td>SWIMMING</td><td>12/01/1998</td><td>7500</td></tr> <tr><td>6</td><td>KETAKI</td><td>36</td><td>SWIMMING</td><td>24/02/1998</td><td>8000</td></tr> <tr><td>7</td><td>ANKITA</td><td>39</td><td>SQUASH</td><td>20/02/1998</td><td>22000</td></tr> <tr><td>8</td><td>ZAREEN</td><td>37</td><td>KARATE</td><td>22/02/1998</td><td>11000</td></tr> <tr><td>9</td><td>KUSH</td><td>41</td><td>SWIMMING</td><td>13/01/1998</td><td>9000</td></tr> <tr><td>10</td><td>SHAILYA</td><td>37</td><td>BASKETBALL</td><td>19/02/1998</td><td>17000</td></tr> </tbody> </table> <p>What will be the degree and cardinality of table?</p>	COAC H_ID	COACHNAME	AGE	SPORTS	DATOFAPP	PAY	1	KUKREJA	35	KARATE	27/03/1996	10000	2	RAVINA	34	KARATE	20/01/1997	12000	3	KARAN	34	SQUASH	19/02/1998	20000	4	TARUN	33	BASKETBALL	01/01/1998	15000	5	ZUBIN	36	SWIMMING	12/01/1998	7500	6	KETAKI	36	SWIMMING	24/02/1998	8000	7	ANKITA	39	SQUASH	20/02/1998	22000	8	ZAREEN	37	KARATE	22/02/1998	11000	9	KUSH	41	SWIMMING	13/01/1998	9000	10	SHAILYA	37	BASKETBALL	19/02/1998	17000	(1)
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	(ii)	<p>You have a table “company” having column cno, cname, department and salary. Write SQL statement to display average salary of each department.</p>	(1)																																																																		
		<p>SECTION – B Each question carries 3 marks</p>																																																																			
8.		<p>a) What is Data Structure? b) A STACK is a linear structure implemented in manner? c) Write any two application of STACK?</p>	(1) (1) (1)																																																																		
9.	(i)	<p>A table, ITEM has been created in a database with the following fields: ITEMCODE, ITEMNAME, QTY, PRICE</p> <p>Give the SQL command to add a new field, DISCOUNT(of type Integer) to the ITEM table.</p>	(1)																																																																		
	(ii)	<p>A Stationary Store is considering maintaining their inventory using SQL to store the data. As a database administer, Rajan has decided that:</p> <p>Name of the table - INVENTORY The attributes of INVENTORY are as follows: ItemNo - numeric ItemName - character of size 20 Scode - numeric Quantity – numeric</p> <p>Write SQL query to create the above mentioned table.</p>	(2)																																																																		

10.	<p>A relation Vehicles is given below :</p> <table border="1" data-bbox="351 217 1310 536"> <thead> <tr> <th>V_no</th> <th>Type</th> <th>Company</th> <th>Price</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>AW125</td> <td>Wagon</td> <td>Maruti</td> <td>250000</td> <td>25</td> </tr> <tr> <td>J0083</td> <td>Jeep</td> <td>Mahindra</td> <td>4000000</td> <td>15</td> </tr> <tr> <td>S9090</td> <td>SUV</td> <td>Mitsubishi</td> <td>2500000</td> <td>18</td> </tr> <tr> <td>M0892</td> <td>Mini van</td> <td>Datsun</td> <td>1500000</td> <td>26</td> </tr> <tr> <td>W9760</td> <td>SUV</td> <td>Maruti</td> <td>2500000</td> <td>18</td> </tr> <tr> <td>R2409</td> <td>Mini van</td> <td>Mahindra</td> <td>350000</td> <td>15</td> </tr> </tbody> </table> <p>a) Display the average price of each type of vehicle having quantity more than 20. b) Count the type of vehicles manufactured by each company. c) Display the total price of all the types of vehicles.</p>	V_no	Type	Company	Price	Qty	AW125	Wagon	Maruti	250000	25	J0083	Jeep	Mahindra	4000000	15	S9090	SUV	Mitsubishi	2500000	18	M0892	Mini van	Datsun	1500000	26	W9760	SUV	Maruti	2500000	18	R2409	Mini van	Mahindra	350000	15	(3)
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11.	<p>ABC Organization has set up its new centre at Mangalore for its office and web based activities. It has four buildings as given below</p> <table border="1" data-bbox="520 909 1141 1135"> <thead> <tr> <th>Name of Building</th> <th>Number of computers</th> </tr> </thead> <tbody> <tr> <td>Alpha</td> <td>25</td> </tr> <tr> <td>Gamma</td> <td>125</td> </tr> <tr> <td>Beta</td> <td>50</td> </tr> <tr> <td>Lambda</td> <td>10</td> </tr> </tbody> </table> <table border="1" data-bbox="363 1171 1299 1473"> <thead> <tr> <th>Building to building connection</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>Alpha to Beta</td> <td>50m</td> </tr> <tr> <td>Beta to gamma</td> <td>150m</td> </tr> <tr> <td>Gamma to Lambda</td> <td>25m</td> </tr> <tr> <td>Alpha to Lambda</td> <td>170m</td> </tr> <tr> <td>Beta to Lambda</td> <td>152m</td> </tr> <tr> <td>Alpha to Gamma</td> <td>90m</td> </tr> </tbody> </table> <p>1. Suggest the most appropriate topology for the connections between the blocks. 2. The company wants internet accessibility in all the blocks. The suitable and cost-effective technology for that would be. 3. Which one of the following devices will you suggest for connecting all the computers with in each of their blocks? (i) Hub/Switch (ii) Repeater 4. The company is planning to link its head office situated in New Delhi with the offices in hilly areas. Suggest a way to connect it economically:</p>	Name of Building	Number of computers	Alpha	25	Gamma	125	Beta	50	Lambda	10	Building to building connection	Distance	Alpha to Beta	50m	Beta to gamma	150m	Gamma to Lambda	25m	Alpha to Lambda	170m	Beta to Lambda	152m	Alpha to Gamma	90m	(4)											
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12.	(i)	<p>Give two advantages and two disadvantages of star topology</p> <p style="text-align: center;">OR</p> <p>Define the following terms: www, web hosting</p>	(2)																																																																													
	(ii)	<p>How is packet switching different from circuit switching?</p>	(2)																																																																													
13.		<p>Write SQL commands for the queries given below on a table LIBRARY showing the details of Books :</p> <p style="text-align: center;">Table: LIBRARY</p> <table border="1" data-bbox="378 637 1309 1016"> <thead> <tr> <th>SNo.</th> <th>Title</th> <th>Author</th> <th>Subject</th> <th>Publisher</th> <th>Quantity</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Data Structure</td> <td>Lipschute</td> <td>DS</td> <td>McGraw</td> <td>4</td> <td>217.00</td> </tr> <tr> <td>2</td> <td>DOS Guide</td> <td>NORTRON</td> <td>OS</td> <td>PHI</td> <td>3</td> <td>175.00</td> </tr> <tr> <td>3</td> <td>Turbo C++</td> <td>RobortLafore</td> <td>Prog</td> <td>Galgotia</td> <td>5</td> <td>270.00</td> </tr> <tr> <td>4</td> <td>Dbase Dummies</td> <td>Palmer</td> <td>DBMS</td> <td>PustakM</td> <td>7</td> <td>130.00</td> </tr> <tr> <td>5</td> <td>Mastering Windows</td> <td>Cowart</td> <td>OS</td> <td>BPB</td> <td>1</td> <td>225.00</td> </tr> <tr> <td>6</td> <td>Computer Studies</td> <td>French</td> <td>FND</td> <td>Galgotia</td> <td>2</td> <td>75.00</td> </tr> <tr> <td>7</td> <td>COBOL</td> <td>Stern</td> <td>Prog</td> <td>John W</td> <td>4</td> <td>1000.00</td> </tr> <tr> <td>8</td> <td>Guide Network</td> <td>Freed</td> <td>NET</td> <td>Zpress</td> <td>3</td> <td>200.00</td> </tr> <tr> <td>9</td> <td>Basic for Beginners</td> <td>Norton</td> <td>Prog</td> <td>BPB</td> <td>3</td> <td>40.00</td> </tr> <tr> <td>10</td> <td>Advanced Pascal</td> <td>Schildt</td> <td>Prog</td> <td>McGraw</td> <td>4</td> <td>350.00</td> </tr> </tbody> </table> <p>i. Display the title of all books with Price in the range 100 to 300.</p> <p>ii. Display the Author of all the books whose title starts with “D “</p> <p>iii. Arrange all the books of library in increasing order of their quantity.</p> <p>iv. Display the detail of book written by “ RobortLafore” .</p>	SNo.	Title	Author	Subject	Publisher	Quantity	Price	1	Data Structure	Lipschute	DS	McGraw	4	217.00	2	DOS Guide	NORTRON	OS	PHI	3	175.00	3	Turbo C++	RobortLafore	Prog	Galgotia	5	270.00	4	Dbase Dummies	Palmer	DBMS	PustakM	7	130.00	5	Mastering Windows	Cowart	OS	BPB	1	225.00	6	Computer Studies	French	FND	Galgotia	2	75.00	7	COBOL	Stern	Prog	John W	4	1000.00	8	Guide Network	Freed	NET	Zpress	3	200.00	9	Basic for Beginners	Norton	Prog	BPB	3	40.00	10	Advanced Pascal	Schildt	Prog	McGraw	4	350.00	(4)
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