



**BAL BHARATI PUBLIC SCHOOL**  
**PRE-BOARD EXAMINATION (2023-24)**  
**CLASS -XII**  
**COMPUTER SCIENCE (083) MARKING SCHEME**  
**CODE - CS/12**

TIME: 3 hrs.

Maximum Marks: 70

SECTION - A		
1.	False	1
2.	(d)Error	1
3.	(d) "This is a string"	1
4.	b) True c)2ndName	1
5.	b) T[2] = -29	1
6.	function header	1
7.	(b) Relation	1
8.	(b) ALTER	1
9.	(a) Year . 0. at All the best	1
10.	(c) DESCRIBE	1
11.	(d) readlines( )	1
12.	Drop table command	1
13.	(c) Network Interface Card	1
14.	(b) 90	1
15.	having clause	1
16.	( c ) Acts like a WHERE clause but is used for groups rather than rows.	1
17.	d)	1
18.	d)	1
Section-B		
19.	1,5,9,10,5,6,1,2,3,6,7,10,11	2

20.	<p>Advantage of bus topology : It can be extended easily to add new nodes without much cost involved. Disadvantage : Identification of problems becomes difficult if the whole network goes down.</p> <p style="text-align: center;">OR</p> <p>1. Fibre optic cables have much greater bandwidth 2. They offer better speed as compared to Ethernet cable.</p>	2																																								
21.	<p>(a) P a ani 2@</p> <p>(b) dict_values(['Aarav', 26, 15, 'Delhi'])</p>	2																																								
22.	<table border="1" data-bbox="203 562 1393 884"> <thead> <tr> <th>ROLL_NO</th> <th>Name</th> <th>Term 1</th> <th>Term2</th> <th>Position</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Amar</td> <td>370</td> <td>412</td> <td>I</td> </tr> <tr> <td>2</td> <td>Aditya</td> <td>320</td> <td>340</td> <td>I</td> </tr> <tr> <td>3</td> <td>Vijay</td> <td>415</td> <td>425</td> <td>I</td> </tr> <tr> <td>4</td> <td>Mohit</td> <td>350</td> <td>357</td> <td>I</td> </tr> <tr> <td>5</td> <td>Aarushi</td> <td>120</td> <td>95</td> <td>IV</td> </tr> <tr> <td>6</td> <td>Raj</td> <td>150</td> <td>205</td> <td>II</td> </tr> <tr> <td>7</td> <td>Karan</td> <td>475</td> <td>440</td> <td>I</td> </tr> </tbody> </table> <p>Consider the above table In the above table values of each tuple under roll_no column are unique and Non Null ; hence the column roll_no can serve as primary key of the table.</p>	ROLL_NO	Name	Term 1	Term2	Position	1	Amar	370	412	I	2	Aditya	320	340	I	3	Vijay	415	425	I	4	Mohit	350	357	I	5	Aarushi	120	95	IV	6	Raj	150	205	II	7	Karan	475	440	I	2
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23.	<p>(a)</p> <p>(i) Point-to-Point Protocol      (ii) Post Office Protocol.</p> <p>(b) The eight-pin RJ45 (Registered Jack )connector is a standardised interface which often connects a computer to a Local Area Network (LAN).</p>	2																																								
24.	<p>(i) L1.insert(2,200) (ii) message.endswith('.')</p> <p style="text-align: center;">OR</p> <pre>import statistics print( statistics.mode(studentAge) )</pre>	2																																								
25.	<p>SQL Command to add primary key: ALTER TABLE Employee ADD EmpId INTEGER PRIMARY KEY; As the primary key is added as the last field, the command for inserting data will be: INSERT INTO Employee VALUES("Shweta", "Production", 26900, 999); Alternative answer: INSERT INTO Employee(EmpId, Ename, Department, Salary) VALUES(999, "Shweta", "Production", 26900);</p> <p style="text-align: center;">OR</p> <p>To delete the attribute, category: ALTER TABLE Sports DROP category;</p>	2																																								

	To add the attribute, TypeSport ALTER TABLE Sports ADD TypeSport char(10) NOT NULL;																	
<b>Section-C</b>																		
26.	<p>a)</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Roll_No</th> <th>Name</th> <th>Class</th> <th>Fees</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Anita</td> <td>12th</td> <td>9000</td> </tr> <tr> <td>2</td> <td>Prerna</td> <td>11th</td> <td>8500</td> </tr> <tr> <td>3</td> <td>Krishna</td> <td>10th</td> <td>8000</td> </tr> </tbody> </table>	Roll_No	Name	Class	Fees	1	Anita	12th	9000	2	Prerna	11th	8500	3	Krishna	10th	8000	1+2
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1	Anita	12th	9000															
2	Prerna	11th	8500															
3	Krishna	10th	8000															
	<p>b)</p> <p>(i) select count(*) from teacher where age&lt;23; (ii) insert into teacher values(8,"Lalit",27,"History",18000);</p>																	
27.	<pre>def searchfile(fname,pos):     fin=open(fname)     fin.seek(pos)     a=fin.readlines()     for i in a:         wordlis=i.split()         for i in wordlis:             if i[0]=='u' or i[0]=='U':                 print(i)  fname=input("enter the fname") pos=int(input("enter the position to start reading from ?")) searchfile(fname,pos)</pre> <p style="text-align: center;"><b>OR</b></p> <pre>fin=open("a.txt") a=fin.readlines() for i in a:     wordlis=i.split()     for i in wordlis:         if len(i)&gt;5:             print(i)</pre>	3																
28.	<p>(I) select coachname , dateofapp from club order by dateofapp desc; (II) Select coachname , pay, age,0.15 * pay as 'bonus' from club; (III) Select sports, avg(pay) from club group by sports;</p>	3																

29.	<pre>str=input("enter a string") strrev=str[::-1] if str==strrev:     print("entered string is a palindrome") else:     print("entered string is not a palindrome")</pre>	3
30.	<pre>status=[[["6778889999","aryan"],["897654309","rohit"]] def push():     phoneno=input("enter phone num to be added")     name=input("enter name to be added")     l=[phoneno,name]     status.append(l) def ppop():     p=status.pop()     print(p) push() ppop()</pre>	3
<b>SECTION - D</b>		
31.	<p>a) with <u>open('stu.dat', 'wb')</u> as fh:  b) <u>pickle.dump(stu1, fh)</u>  c) with <u>open('stu.dat', 'rb')</u> as fin:</p> <p>OR</p> <p>Rstu=pickle.load(fin)</p> <p>d) {"RollNo.": 24, "Name": "megha", "Marks": 76}  Not eligible for merit certificate</p>	4
32.	<p>(i) Select cname, name from customer, itemmaster where  customer.caccno=ITEMMASTER.id;  (ii) Update customer set cbal=cbal+500 where cname like 'M%';  (iii) Desc itemmaster;  (iv) 5</p>	4
<b>SECTION - E</b>		
33.	<p>i) X-----Z-----Y-----U</p> <p>ii) Server should be placed in <b>Wing Z</b> as it has maximum number of computers</p> <p>iii)</p> <p>a) Considering the layout suggested in (i) Repeater can be placed between Y and U wing as distance is largest between these two wings  b) Switch will be placed in each wing to support connectivity amongst multiple computers there in each wing.</p> <p>iv) To connect Delhi and Mizoram radio waves (wireless medium) can be used since the company is ready to compromise on the speed of connectivity and radio waves</p>	5

	does not offers good speed but will prove economical as it is generally available, no additional setup is required.	
34.	<p>a) 500?2160?</p> <p>b)</p> <pre>mycursor=con1.cursor()      #Statement 1 mycursor.execute("select * from student where marks&lt;75")  #Statement 2 data=mycursor.fetchall( )   #Statement 3</pre>	2+3
35.	<pre>import csv a=open("one.csv",'w',newline='') c=csv.writer(a) count=0 header=['roll','name','marks'] c.writerow(header) for i in range(2):     roll=int(input("enter roll"))     name=input("enter name")     marks=int(input("enter marks"))     l=[roll,name,marks]     c.writerow(l) a.close()  OR  import csv name=input("Enter the name whose information needs to be searched ?") a=open("student.csv",'r') r=csv.reader(a) for row in r:     if row[1]==name:         print(row) a.close()</pre>	5