

Class: XII Session: 2022-23
Computer Science (083)
PreBoard -1 (Theory)

Maximum Marks: 70

Time Allowed: 3 hours

SECTION A (1 mark to be awarded for every correct answer)		
1.	Ans. (a) Type casting (1 Mark for correct Answer)	1
2.	Ans: (d) Class (1 Mark for correct Answer)	1
3.	Ans: (c) It will make the content of dictionary as dict={"Exam": "AISSCE", "Year": 2023} (1 Mark for correct Answer)	1
4.	Ans: 27 (1 Mark for correct Answer)	1
5.	Ans: (a) Year . 0. at All the best (1 Mark for correct Answer)	
5.	(1 Mark for correct Answer)	1
6.	Ans: (d) b (1 Mark for correct Answer)	1
7.	Ans: (c) alter (1 Mark for correct Answer)	1
8.	Ans: (a) DELETE command (1 Mark for correct Answer)	1
9.	Ans: (b) - Statement 4 (1 Mark for correct Answer)	1
10.	Ans: (a) AND,OR,NOT (1 Mark for correct Answer)	1
11.	Ans: (a) file_object.seek(offset [, reference_point]) (1 Mark for correct Answer)	
12.	Ans: (d) ALTER (1 Mark for correct Answer)	1
13.	Ans: (a) 32 bits (1 Mark for correct Answer)	1
14.	Ans: (a) (1,3,4) (1 Mark for correct Answer)	

15.	Ans: b)	1
16.	Ans: (b) - Fetchtwo() <i>(1 Mark for correct Answer)</i>	1
17.	Ans: (c) A is True but R is False <i>(1 Mark for correct Answer)</i>	1
18.	Ans: (a) Both A and R are true and R is the correct explanation for A <i>(1 Mark for correct Answer)</i>	1
SECTION B		
19	Ans: <pre>def sum(arg1, arg2): total=arg1+arg2 # No need of semicolon at two places print("Total:", total) return total # wrong indention for return statement a=sum(10,20) #Value returned from function is not received print("Total:", total)</pre> <i>(½ mark for each correct correction made and underlined.)</i>	
20.	Ans: (1 mark for each correct point of difference)	2
21	<i>(1 mark for each correct answer)</i>	2
22	DDL- Data definition language. Consists of commands used to modify the metadata of a table. For Example- create table, alter table, drop table DML-Data manipulation language. Consist of commands used to modify the data of a table. For Example- insert, delete, update	2
23.	Ans: (i)SMTP: Simple Mail Transfer Protocol (ii) PPP: Point to Point Protocol <i>(½ mark for every correct full form)</i> Ans: TELNET is used to access a remote computer / network. <i>(1 mark for correct answer)</i>	2

24.	<p>Default argument in function- value provided in the formal arguments in the definition header of a function is called as default argument in function. They should always be from right side argument to the left in sequence. For example: def func(a, b=2, c=5): # definition of function func() here b and c are default arguments</p> <p>OR</p> <p>In the function CalculateInterest (Principal, Rate=.06,Time) parameters should be default parameters from right to left hence either Time should be provided with some default value or default value of Rate should be removed <i>(½ mark for the correct digit with a #)</i></p>	2																
25	<p>TABLE: COUNTRY (a) 8000 (b) 1246700 (c) 59 d) 5</p> <p>OR</p> <p>(a) Candidate keys:- Code, CName, Population (b) Country_Code</p>																	
Section -C																		
26	<p>Ans 1. count(DISTINCT Address Delhi Mumbai</p> <table border="1" data-bbox="159 1299 877 1456"> <tr> <td>2. Company</td> <td>MAX(Price)</td> <td>MIN(Price)</td> <td>COUNT(*)</td> </tr> <tr> <td>ABC</td> <td>15</td> <td>10</td> <td>2</td> </tr> <tr> <td>XYZ</td> <td>7</td> <td>6</td> <td>2</td> </tr> <tr> <td>CAM</td> <td>5</td> <td>5</td> <td>1</td> </tr> </table> <p>(1 Mark for each correct answer)</p>	2. Company	MAX(Price)	MIN(Price)	COUNT(*)	ABC	15	10	2	XYZ	7	6	2	CAM	5	5	1	3
2. Company	MAX(Price)	MIN(Price)	COUNT(*)															
ABC	15	10	2															
XYZ	7	6	2															
CAM	5	5	1															

27.	<pre>def COUNT_AND(): count=0 file=open('STORY.TXT','r') line = file.read() word = line.split() for w in word: if w in ['AND','and','And']: count=count+1 file.close() print(count) (1/2 Mark for opening the file) (1/2 Mark for reading word) (1/2 Mark for checking condition) (1/2 Mark for printing word) OR def DISPLAYWORDS(): count=0 file=open('STORY.TXT','r') line = file.read() word = line.split() for w in word: if w[0]=="T" or w[0]=="t": count=count+1 file.close() print(count) (1/2 Mark for opening the file) (1/2 Mark for reading word) (1/2 Mark for checking condition)</pre>	3
28	<p>ENGLISH 51 PHYSICS 76 MATHS 24 CHEMISTRY 27 ii) PRIYA RAI FEMALE LISA ANAND FEMALE iii) 4 (1 mark for each correct answer)</p>	3
29	<pre>def INDEX_LIST(L): indexList=[] for i in range(len(L)): if L[i]!=0: indexList.append(i) return indexList</pre> <p><i>(½ mark for correct function header 1 mark for correct loop 1 mark for correct if statement ½ mark for return statement)</i></p> <p>Note: Any other relevant and correct code may be marked</p>	3

30	<pre>def stkpush(stk, item): stk.append(item) top=len(stk)-1 OR def stkpop(stk): if isEmpty(): print("Underflow")</pre>	3
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SECTION D

31	<p>(i) Movie editing block is the most appropriate to house the server as it has the maximum number of computers. (1/2 mark for naming the server block and ½ mark for correct reason.)</p> <p>(ii) Firewall (1 mark for the correct answer)</p> <p>(iii) Ethernet Cable</p> <p>(iv) Repeater is not required between the blocks as the distances are less than 100 mts. (1 mark for the correct answer)</p> <p>(v) Ans: Protocol: VoIP (1 mark for the correct answer)</p>	5
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32.	<p>(a) Output: vELCcME#Kk (1 mark for vELC and 1 mark for cME#Kk)</p> <p>(b) Statement 1: con1.cursor()</p> <p>Statement 2: mycursor.execute("select * from student where Marks>75")</p> <p>Statement 3: mycursor.fetchall() (1 mark for each correct statement)</p>	2+3
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33	<p>(1 mark for advantage ½ mark for importing csv module 1 ½ marks each for correct definition of ADD() and COUNTR() ½ mark for function call statements)</p> <p style="text-align: center;">OR</p> <p>(1 mark for difference ½ mark for importing csv module 1 ½ marks each for correct definition of add() and search() ½ mark for function call statements)</p>	
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SECTION E

34.	Write SQL Commands for the following queries based on the relations PRODUCT and CLIENT given below.	1+1+		
Table: Product				
P_ID	ProductName	Manufacturer	Price	ExpiryDate
TP01	Talcum Powder	LAK	40	2011-06-26
FW05	Face Wash	ABC	45	2010-12-01
BS01	Bath Soap	ABC	55	2010-09-10
SH06	Shampoo	XYZ	120	2012-04-09
FW12	Face Wash	XYZ	95	2010-08-15
Table: Client				
C_ID	ClientName	City	P_ID	
1	Cosmetic Shop	Delhi	FW05	
6	Total Health	Mumbai	BS01	
12	Live Life	Delhi	SH06	
15	Pretty One	Delhi	FW05	
16	Dreams	Bengaluru	TP01	
14	Expressions	Delhi	NULL	
<p>i. To display the ClientName and City of all Mumbai- and Delhi-based clients in Client table.</p> <p>ii. Increase the price of all the products in Product table by 10%.</p> <p>iii. To display the ProductName, Manufacturer, ExpiryDate of all the products that expired on or before '2010-12-31'.</p> <p>iv To display C_ID, ClientName, City of all the clients (including the ones that have not purchased a product) and their corresponding ProductName sold.</p> <p><i>(1 mark for each correct Answer)</i></p>				
35.	1 mark for each correct answer (ANY			
FOUR)				
(a) Line 1 : csv				
(b) Line 2 : a				
(c) Line 3 : reader				
(d) Line 4 : close()				
Arunima aru@nima				
Frieda myname@FRD				

***** End Of Paper *****