

Kendriya Vidyalaya Sangathan, Regional Office, Bhopal

Pre-Board Examination 2020-21

Class- XII (Computer Science (083))

Marking Scheme

PART-A		
Section-I		
Select the most appropriate option out of the options given for each question. Attempt any 15 questions from question no 1 to 21. (award 1 mark for each correct answer)		
1.	a) def	1
2.	PUT	1
3.	writerow()	1
4.	h v e i l r l a o t	1
5.	['violet', 'indigo', 'green', 'red']	1
6.	(ii) each of the keys within a dictionary must be unique	1
7.	(ii) Tuple	1
8.	8	1
9.	FTP	1
10.	Raj is a social worker, one day he noticed someone is writing insulting or demeaning comments on his post. What kind of Cybercrime Raj is facing?	1
11.	UPDATE	1
12.	Relational Database management System	1
13.	Count (*)	1
14.	(b) Domain	1
15.	Co-axial	1
16.	(iii) del L[2]	1
17.	nohtyP Python	1
18.	show databases	1
19.	General Packet Radio Service (GPRS)	1
20.	b) Distinct	1
21.	a band of frequencies used for sending electronic signals	1

Section-II

Both the Case study based questions are compulsory. Attempt any 4 sub parts from each question. Each question carries 1 mark

22.	(a) VisitorID and ContactNumber	1
	(b) VisitorID	1
	(c) Degree= 3 Cardinality=4	1
	(d) insert into VISITOR values ("V004", "VISHESH",9907607474)	1
	(b) DROP TABLE VISITOR;	1
23.	(a) csv	1
	(b) read mode	1
	(c) 'emp.csv'	1
	(d) reader	1
	(e) 2,Scott,4000 5, Sam,4200 Number of "S" names are 2/5	1

PART-B

Section-I

24.	(i) True (ii) 2	2																
25	<p>A Trojan horse or Trojan is a type of malware that is often disguised as legitimate software. Trojans can be employed by cyber-thieves and hackers trying to gain access to users' systems. activities performed by Trojan can be: Deleting data Blocking data Modifying data Copying data Disrupting the performance of computers or computer networks</p> <p style="text-align: center;">OR</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">HTML</th> <th style="text-align: center;">XML</th> </tr> </thead> <tbody> <tr> <td>HTML is used to display data and focuses on how data looks.</td> <td>XML is a software and hardware independent tool used to transport and store data. It focuses on what data is.</td> </tr> <tr> <td>HTML is a markup language itself.</td> <td>XML provides a framework to define markup languages.</td> </tr> <tr> <td>HTML is not case sensitive.</td> <td>XML is case sensitive.</td> </tr> <tr> <td>HTML is a presentation language.</td> <td>XML is neither a presentation language nor a programming language.</td> </tr> <tr> <td>HTML has its own predefined tags.</td> <td>You can define tags according to your need.</td> </tr> <tr> <td>In HTML, it is not necessary to use a closing tag.</td> <td>XML makes it mandatory to use a closing tag.</td> </tr> <tr> <td>HTML is static because it is used to display data.</td> <td>XML is dynamic because it is used to transport data.</td> </tr> </tbody> </table>	HTML	XML	HTML is used to display data and focuses on how data looks.	XML is a software and hardware independent tool used to transport and store data . It focuses on what data is.	HTML is a markup language itself.	XML provides a framework to define markup languages .	HTML is not case sensitive .	XML is case sensitive .	HTML is a presentation language.	XML is neither a presentation language nor a programming language.	HTML has its own predefined tags .	You can define tags according to your need .	In HTML, it is not necessary to use a closing tag .	XML makes it mandatory to use a closing tag .	HTML is static because it is used to display data.	XML is dynamic because it is used to transport data.	2
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26	<p>a. HTTP-Hypertext transfer Protocol b. POP3-Post office protocol ver. III c. VOIP- Voice over internet Protocol d. TCP- Transmission control protocol</p>	2									
27	<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 style="text-align: center;">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</p>	2									
28	<p>Rewrite the following Python program after removing all the syntactical errors (if any), underlining each correction:</p> <pre>def checkval: # checkval() x = <u>input("Enter a number")</u> # int(input("Enter a number")) if x % 2 =0: print (x, "is even") elseif x<0: # elif print (x, "should be positive") else: # else: print (x, "is odd")</pre>										
29	<p>Maximum value of FROM = 3 Maximum value of TO = 4 (ii) 30#40#50#</p>	2									
30	<p>Primary Key- one or more attribute of a relation used to uniquely identify each and every tuple in the relation. For Example : In the below Table Student, RollNo can be the Primary Key</p> <table border="1" data-bbox="602 1262 1045 1373"> <thead> <tr> <th>RollNo</th> <th>Name</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Paridhi</td> <td>90</td> </tr> <tr> <td>2</td> <td>Unnati</td> <td>85</td> </tr> </tbody> </table>	RollNo	Name	Marks	1	Paridhi	90	2	Unnati	85	2
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31	<p>{ } and fetchone()</p>	2									
32	<p>DDL- Data definition language. Consists of commands used to modify the metadata of a table. For Example- create table, alter table, drop table</p> <p>DML-Data manipulation language. Consist of commands used to modify the data of a table. For Example- insert, delete, update</p>	2									
33	<p>vELCcME#Kk</p>	2									
Section-II											
34	<pre>L=[10,12,14,17,10,12,15,24,27,24] L1=[] L2=[] for i in L: if i not in L2: c=L.count(i) L1.append(c) L2.append(i)</pre>	3									

	<pre>print('Item', '\t\t', 'frequency') for i in range(len(L1)): print(L2[i], '\t \t', L1[i])</pre>	
35	<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)</pre> <p><i>(½ Mark for opening the file)</i> <i>(½ Mark for reading word)</i> <i>(½ Mark for checking condition)</i> <i>(½ Mark for printing word)</i></p> <p style="text-align: center;">OR</p> <pre>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)</pre> <p><i>(½ Mark for opening the file)</i> <i>(½ Mark for reading word)</i> <i>(½ Mark for checking condition)</i> <i>(½ Mark for printing word)</i></p>	3
36	<p>i) ENGLISH 51 PHYSICS 76 MATHS 24 CHEMISTRY 27</p> <p>ii) PRIYA RAI FEMALE LISA ANAND FEMALE</p> <p>iii) 4</p> <p><i>(1 mark for each correct answer)</i></p>	3
37	<pre>def stkpush(stk, item): stk.append(item) top=len(stk)-1</pre> <p style="text-align: center;">OR</p> <pre>def stkpop(stk): if isEmpty(): print("Underflow")</pre>	3

	<pre> else: item=stk.pop() print(item) if len(stk)==0: top=None else: top=len(stk)-1 </pre>	
Section-III		
38	<p>(i) Any efficient layout with shortest Wire length (ii) Between 3 and 4 due to larger distance (iii) (a) Wireless (b) WAN (iv) Building-3 due to maximum no of Computers (v) Co- axial cable or fiber optics (1 mark for each correct answer)</p>	5
39	<p>i) update SCHOOL set PERIODS=0.9*PERIODS; ii) select SCHOOL.TEACHERNAME, SCHOOL.CODE, ADMIN.DESIGNATION from SCHOOL, ADMIN where gender='MALE'. iii) select SUBJECT, count(*) from SCHOOL group by SUBJECT; iv) select * from SCHOOL where DOJ>' 01/01/1999' order by EXPERIENCE desc; v) delete from SCHOOL where EXPERIENCE<10; (1 mark for each correct answer)</p>	5
40	<pre> def SCOUNT(): s=' ' count=0 with open('Names.dat', 'rb') as f: while(s): s = f.read(20) s=s.decode() if len(s)!=0: if s[0].lower()=='s': count+=1 print("Total names beginning from "S" are ',count) </pre> <p style="text-align: center;">OR</p> <pre> import csv def DISPEMP(): with open('emp.csv') as csvfile: myreader = csv.reader(csvfile,delimiter=',') print("%10s"%EMPNO,"%20s"%EMP NAME,"%10s"%SALARY") for row in myreader: if int(row[2])>4000: print("%10s"%row[0],"%20s"%row[1],"%10s"%row[2]) </pre>	5