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Class-XII Subject: Computer Science (083) Answer Key

SECTION-A				
QN.	Answer of Question			
1.	Ans. False			
2.	Ans. (c) alter		1	
3.	Ans: (d) dict_student.update(dict_marks)	1	
4.	Ans. (b) True		1	
5.	Ans. (b) DELETE Command		1	
6.	Ans: (c) HomePage		1	
7.	Ans. (c) None		1	
8.	Ans. (a) Year . O. at All the best		1	
9.	Ans. (b) Statement 4		1	
10.	Ans. (c) 512		1	
11.	Ans: (d) PAN		1	
12.	Ans. (b) W*		1	
	B*			
13.	Ans. (a) Pickling		1	
14.	Ans. (b) DISTNICT		1	
15.	Ans. Topology		1	
16.	Ans. (a) Mycur.fetch()		1	
17.	Ans. (c) A is True but R is False			
18.	Ans. (c) A is True but R is False			
1.0	SECT	ΓION-B		
19.	 (i) (a) IP-Internet Protocol (b) URL- Uniform Resource Locator (1/2 mark for each) (ii)VoIP is used to transfer audio (voice) and video over internet(1 mark) OR 			
	(i) Advantage: The network remains operational even if one of the nodes stopsworking. (1 mark for any ONE advantage) (ii)			
	Hub	Switch		
	Hub is a passive Device	Switch is an active device		
	Hub broadcasts messages to all	Switch sends the messages to intended node.	-	
	Or any other valid difference between t	the two	-	
	Or any other valid difference between the two.			
20	def reverse(num):		1+1	
20.	rev = 0		=2	
	while num > 0:			
	rem == num %10			
	$rev = rev^*10 + rem$			
	num = num//10			
	<u>return</u> rev			
	print(reverse(1234))			
1	(½ Mark for each correction up to any 4 corrections)			

21.	def INDEX_LIST(L):	1+1=	
	indexList=[]		
	<pre>for i in range(len(L)):</pre>		
	if L[i]!=0:		
	indexList.append(i)		
	return indexList		
	(1/2 mark for correct function header		
	1 mark for correct loop		
	1 mark for correct if statement		
	1/2 mark for return statement)		
	Note: Any other relevant and correct code may be marked		
	OR		
	def Count_How_Many(Data, item):		
	count=0		
	for n in Data:		
	if(n==item):		
	count+=1		
	print(item, " found ", count, "times")		
	d=[101,102,107,105,102,103,104,102]		
	i=102		
	Count_How_Many(d,i)		
	or any other correct logic		
22.	['H', 'A', 'P', 'P', 'Y'] ['B', 'I', 'R', 'T', 'H', 'D', 'A', 'Y']	2	
23.	(i) str="PYTHON@LANGUAGE"	2	
	print(str[2::])		
	(ii) d=dict()		
	OR		
	(i) s="LANGUAGE"		
	l=list(s)		
	(ii) t=tuple()		
24.	COUNT(*) returns the count of all rows in the table, whereas COUNT	2	
	(COLUMN_NAME) is used with Column_Name passed as argument and		
	counts the number of non-NULL values in a column that is given as		
	argument. Here discount column is having 4 rows with NULLvalues.		
	OR		
	Use KVS; (1/2 mark)		
	Show Tables; (1/2 mark)		
	Desc EMPLOYEE;		
	(1/2 MARK)		
	Select * from EMPLOYEE; (1/2 MARK)		
25	{20.3 19.3 17.2}	2	
۷.	SFCTION-C	-	
26.	Vande 0 Bharat 9 Train 1	3	
	VANDE00bHARAT99tRAIN11		
	(3 marks for correct answer. Partial marks may be given for partially		
	correct answer.)		
27.	(1 mark for each correct output)	1*3	
	· · · · · · · · · · · · · · · · · · ·	=3	

	(i)				
	sports				
	SOCCER				
	TENNIS				
	CRICKET				
	ATHLETICS				
	SNOOKER				
	ii)				
	Sports	MAX(salary)			
		50000	-		
	TENNIS	20000	-		
		15000	_		
		12000	-		
	iii)	12000			
	nname	sports	salary		
			15000		
			12000		
			5000		
28	def displaywords	().	3000		3
20.	file = open('d	()· ata txt' 'r')			
	file = Open(data.txt, T)				
	lst=st snlit()				
	for k in lst:				
	if len[k] >3	3:			
	print(k	, end=" ")			
	file.close()	-			
	displaywords ()# Call the displaywords				
	(1/2 mark for fur	iction header,	1 mark for opening file,		
	1 mark for corr	ect for loop and	d condition,½ mark for closing fi	le)	
	OR				
	def count_lines():				
	f=open("student.txt",'r')				
	rows=f.readli	nes()			
	end y=not y	=0			
	_, _,				
	for rec in row	/S:			
	if(rec[-1]==	'y'):			
	end_y+=	1			
	else:				
	not_y+=1	1			
	print("The nu	mber of lines in	file are", len(rows))		
	print("The number of lines ending with alphabet 'y' are:",end_y)				
	print("The number of lines not ending with alphabet 'y' are:",not_y)				
	count_lines()				
	#call the function	1			
	(½ mark for fur	nction header,	1 mark for opening file,		
	1 mark for corr	ect for loop an	d condition,½ mark for closing fi	le)	
29.	(i) SELECT EMP_	NAME, BASIC+E	A+HRA+NPS AS "GROSS SALARY"	FROM	1*3
	SALARY;				=3
	(ii)UPDATE SALA	ARY SET DA=DA	L+0.03*BASIC;		
1	I IIIIIALTER TARL	E SALARY DRO	Y COLUMN EMP_DESIG;		
			_ /		

20		С
50.	data = [1,2,3,4,5,6,7,8]	5
	stack = []	
	def push(stack, data):	
	for x in data:	
	if x % 2 == 0:	
	stack.append(x)	
	def pop(stack):	
	if len(stack)==0:	
	return "stack empty"	
	else:	
	return stack.pop()	
	push(stack, data)	
	print(pop(stack))	
	(½ mark should be deducted for all incorrect syntax. Full marks to beawarded	
	for any other logic that produces the correct result.)	
	SECTION-D	
31.	i)SELECT SUM (PERIODS), SUBJECT FROM SCHOOL GROUP BY SUBJECT ;	1*4
	ii) SELECT MIN(EXPERIENCE), MAX(CODE) FROM SCHOOL;	=4
	iii)SELECT TEACHERNAME, GENDER FROM SCHOOL, ADMIN WHERE	
	DESIGNATION = 'COORDINATOR' AND SCHOOL.CODE=ADMIN.CODE;	
	iv)SELECT COUNT(DISTINCT SUBJECT) FROM SCHOOL;	
	(1 mark for each correct query)	
32.	import csv	2+2=
	def Add_New():	4
	fout=open("playerdata.csv ","a",newline='\n')	
	wr=csv.writer(fout)	
	P_id=int(input("Enter Player Id :: "))	
	P_name=input("Enter Player name :: ")	
	P_runs=int(input("Enter price :: "))	
	playerlist=[P-id,P_name,P_runs]	
	wr.writerow(playerlist)	
	fout.close()	
	def Display_Record():	
	fin=open("playerdata.csv ","r")	
	data=csv.reader(fin)	
	found=False	
	print("The Player Records are: ")	
	for Rec in data:	
	if int(rec[2])>5000:	
	found=True	
	print(rec[0],rec[1],rec[2])	
	if found==False:	
	print("Such Record not found")	
	Add_New():	
	Display_Record():	
	(½ mark for importing csv module)	
	(1 ½marks each for correct definition of Add_New() and	
	Display_Record ())	
	(½ mark for function call statements)	

	SECTION-E			
33.	i) ADM Block	1*5=		
	lustification- It has maximum number of computers. Reduce traffic	5		
	i) wired medium is athernat college following bus (collegest officient) or star			
	II) wired medium is ethernet cables. Following bus (cable cost efficient) or star			
	with ADM as centre (network traffic efficient)			
	DEVELOPMENT HUMANRESOURCE			
	iii) (a) Switches in all the blocks since the computers need to be connected to			
	the network.			
	(b) Repeaters between ADM and HUMANRESOURCE block& ADM and Logistics			
	block The reason being the distance is morethan 100m			
	iv) Modem should be placed in the Server building			
	v) Optical Fiber cable connection			
34.	(i) Full form of CSV is Coma Separated Value.	2+3=		
	pickle module is used for Binary files and csv module is used for	5		
	importing csv files. $(1 + \frac{1}{2} + \frac{1}{2})$			
	ii)import pickle			
	def Trace_Book():			
	fopen=open("library.dat "."r")			
	data=pickle load(fonen)			
	found-Ealse			
	print/"The Book Becords are: ")			
	print(The Book Records are:)			
	for Rec in data:			
	if (rec[2])<1000:			
	found=True			
	print(rec[0],rec[1],rec[2])			
	if found==False:			
	print("Such Record not found")			
	Trace Book()			
	(i) (1 mark for each difference between text file and binary file)			
	(i) (i mark for each difference between text me and binary me)			
	Total = 0			
	Count_rec = 0			
	Count_age = 0			
	with open(" STUDENT.DAT", " rb") as F:			
	while True:			
	try:			
	R=pickle.load(f)			
	Count rec = Count rec+1			
	Total = Total + R[2]			
	if R[2] > 18.			
	$\frac{11}{12} < 10.$			
	$\begin{array}{c} \text{print}(\kappa[1]), \text{ is of Age : }, \kappa[2]) \\ \text{Count area } = 1 \end{array}$			
	$Count_age + = 1$			
	except:			
	break			
	if Count_age = =0 :			
	print("There is no student who is greater than 18 year")			

	Get_Stud()				
35.	(i)Any one difference:				
	CANDIDATE KEY		ALTERNATE KEY	5	
	All attributes in a relation thathave pote	ential to	All the leftover candidate keys		
	become a Primary key		after selecting the primary key		
	<pre>(ii) import mysql.connector as BD def Emp_Database(): con=BD.connect(host="localhost", user="root", password="bhara database="TOUR") BDcursor=con.cursor() print("Travels at Hilly Area and the distance more than 1000 KM. BDcursor.execute("select * from TRAVELS WHERE Geo_Cond ='hilly a</pre>				
	print(rec)				
	OR	R			
	(i)Any one difference:				
	PRIMARY KEY		UNIQUE KEY		
	There can be only one primary key in a table	can be more than one unique a table			
The primary key cannot have null Unique can have null values			e can have null values		
	<pre>(ii) import mysql.connector as cnt def Emp_Database(): con=cnt.connect(host="localhost", user="root", password="tiger",</pre>				