## www.Learnpython4cbse.com XII - Computer Science (083)

## **Marking Scheme**

## Time Allowed: 3 hours

<u>Ques</u> <u>No</u>	Question and Answers	Distribution of Marks	Total Marks
	SECTION A		1
1	True	1 mark for	1
		correct	
		answer	
2	Option d	1 mark for	1
	delete	correct	
		answer	
3	Option b	1 mark for	1
	10	correct	
	18	answer	
4	Option d	1 mark for	1
	('BHASA', ' ', 'SANGAM@75')	correct	
		answer	
5	Option b	1 mark for	1
	15 50	correct	
	15,50	answer	
6	Option a	1 mark for	1
	ΡΔΝ	correct	
		answer	
7	Option a	1 mark for	1
		correct	
	rgb	answer	
8	Option b	1 mark for	1
-		correct	
		answer	

<u>MM: 70</u>

9	Option b	1 mark for	1
		correct	
	Statement 4	answer	
10	Option b	1 mark for	1
		correct	
	Wait#Stop#	answer	
11		1 month for	1
11	Option b	I mark for	1
		correct	
	SMTP	answer	
12	Option a	1 mark for	1
		correct	
	21	answer	
	7		
13	True	1 mark for	1
		correct	
		answer	
14	Option b	1 mark for	1
		correct	
	It is case sensitive	answer	
15	Packet	1 mark for	1
		correct	
		answer	
16	Option c	1 mark for	1
		correct	
	seek()	answer	
47			
1/	Option a	1 mark for	1
	Both A and K are true but K is the correct explanation for A	correct	
		answer	

18	Option a	1 mark for	1
10	Option a	correct	1
	Doth A and D are true but D is the correct evaluation for A	answer	
	Both A and K are true but K is the correct explanation for A	answei	
	SECTION B		
19	(i)	½ mark for	1+1=2
		each correct	
	SMTP – Simple Mail Transfer Protocol	expansion	
	IMAP – Internet Message Access Protocol		
	(ii)		
	Active hubs amplify the incoming electric signal whereas passive hubs	1 mark for	
	do not amplify the electric signal. (Any other valid difference may be	any one	
	considered)	difference	
		unierence	
	OR		
	(i) A network protocol is an established set of rules that determine	1 mark for	
	now data is transmitted between different devices in the same	correct	
		definition	
	(II) Hub is an electronic device that connects several hodes to form a network and redirect the received information to all the nodes		
	in a broadcast mode. Whereas Switch is an intelligent device	1 mark for	
	that connects several nodes to form a network and redirect the	any one	
	received information only to the intended node(s).	correct	
	(Any other valid difference may be considered)	difference	
20	def table ():	½ mark for	2
	n=int ( <u>input</u> ("Enter number which table U need: "))	each	
	print ("able of Enter no=",i*n)	correction	
	table ()	made	

21		1/2 mark for	2
	SUB IECT={1:"Hindi" 2:"Physics" 3:"Chemistry" 4:"CS" 5:"MATH"}	correct	
		function	
		header	
	for S in SUBJECT.values():	½ mark for	
	if len(S)>5:	correct loop	
	print(S.upper())		
	countMy()	½ mark for	
		correct if	
		statement	
		½ mark for	
		displaying	
		the output	
	OR		
		½ mark for	
	deflentines (STRING).	correct	
	t=()	function	
	L=STRING.split()	header	
	for line in L:	½ mark for	
	length=len(line)	using split()	
	t=t+(length,)	adding to	
	return t	tuple	
		½ mark for	
		statement	
		statement	
	Note: Any other correct logic may be marked		
22	(22 44 66)	1½ mark for	2
	(22, דד, 00)	each correct	
		digit	
		1/2 mark for	
		parenthesis	

23	(i) L1.insert(1,100)	1 mark for	1+1=2
		each correct	
	(ii) S1.isdigit()	statement	
	OB		
	pop() function removes the lastvalue and returns the same.		
	>>>L=[10,20,30,20]	1 mark for correct	
	>>> L.pop ()	difference	
	20	for suitable	
	The <i>remove()</i> method removes the first matching value from the list.	example	
	>>>L.remove (20)		
	[10, 30, 20]		
24	SQL Command to add primary key:	2 mark for	2
		correct	
	select * from student where fee IS NULL	Command	
	OR		
	DDL : CREATE, ALTER DROP	each correct	
		DDL & DML	
	DML: INSERT UPDATE DELETE	Categorized	
		commands	
25		½ mark for	2
	-22 # 756 # -9 # 230 #	each correct	
		number and ½	
		mark for each	
		correct #	
		symbol	
	SECTION C		
26	['DelhiDelhi', 'JaipurJaipur', 'AgraAgra', 'SuratSurat', 'MumbaiMumbai',	½ mark for	3
	'BhopalBhopal']	each correct	
		output	

27	(a) <u>Item N</u> White Comfo Wood	<u>Name</u> lotus ort Zone Comfort	(b) <u>Dateofstock</u> 13/12/2001 22/02/2002 20/02/2003	(c) <u><b>Type</b></u> Double Bed Baby Cot Office Table	<u>Sum(Price)</u> 80000 30500 43000	1 mark for each correct output.	1*3=3
				Sofa Dining Table	57500 11500		
28	def SHOV c=0 file=ope line = fi word = for w in if le prin file.clos def count f = oper lines =0 L=f. rea for i in L if i [0] lin print ("N	VWORD () en('STORY le.read() line.split() word: n(w)<5: it( w) se() H( ): n ("para.txt ) se() H( ): = 'H': es +=1 No. of lines	: ′.TXT,'r') :" , "r" )	OR		( <sup>1</sup> / <sub>2</sub> Mark for opening the file) ( <sup>1</sup> / <sub>2</sub> Mark for reading line and/or splitting) ( <sup>1</sup> / <sub>2</sub> Mark for checking condition) ( <sup>1</sup> / <sub>2</sub> Mark for printing word)	3
29	(i)	UPDATE SET Sa WHERE	E EMP llary=Sala Allowance	ry + Salar IS NOT NU	Y*0.10	1 mark for each correct query	1*3=3
	(ii)	SELECI "Total	'Name, Sa Salary"	lary + All FROM EMP;	owance AS.		
	(iii)						
		DELETE	E FROM EMP				
		WHERE	Salary>40	000;			

30	<pre>N=[12, 13, 34, 56, 21, 79, 98, 22, 35, 38] def PUSHE1(S,N): S.append(N) def POPE1(S): if S!=[]: return S.pop() else: return None ST=[] for k in N: if k%4==0: PUSHE1(ST,k) while True: if ST!=[]: print(POPE1(ST),end=" ") else: break</pre>	1½ marks for each Push and Pop operation	3
	SECTION D		
31	(i) 3	1 mark for each correct output	1*4=4
	(ii) 1 1 2 (iii) Dname Pname PARESH Lal singh MANISH Arjun AKASH Narender		
	(iv) Manish		

32		½ mark for	4
	import csv	accepting	
	def createcsv():	data	
	<pre>f=open("result.csv","w", newline="")</pre>	correctly	
	w=csv.writer(f)	confectiv	
	w.writerow([1, 'Anil', 40, 34, 90, ""])	½ mark for	
	W.Writerow([2,'Sonan', /8, 34, 90, ""])	opening and	
	f.close()	closing file	
		0.000.18	
	import csv	½ mark for	
	def copycsv():	writing	
	f=open("result.csv","r")	headings	
	<pre>f1=open("final.csv","w",newline="") </pre>	0	
	WI=CSV.Writer(II)	½ mark for	
	for x in r:	writing row	
	x[5]=int(x[2])+int(x[3])+int(x[4])		
	w1.writerow(x)	½ mark for	
	f.close()	opening and	
	f1.close()	closing file	
		½ mark for	
		reader object	
		1/ mark for	
		/2 IIIdI K IUI	
		print neading	
		½ mark for	
		printing data	
		P	
	SECTION E	<u> </u>	
33	(i) M/s Computer Solutions should install its server in finance block as it	1 Mark of	1*5=5
		each correct	
	is having maximum number of computers.	answer	
	(ii) Any suitable layout		
	(iii) Satellite Link.		
	(iv) Switch.		
	(v) LAN		
-	[0]	·I	

34	(i)	1 mark for	2+3=5
	<b>rb+</b> Opens a file for both reading and writing in binary format. (+) the file pointer will be at the beginning of the file.	<u>each correct</u> difference	
	<pre>wb+ Opens a file for both reading and writing in binary format. Overwrites the existing file If the file exists. If the file does not exist, creates a new file for reading or writing. (ii) def Readfile():     s=open("Employee.dat", "rb+")     try:         while True:             r=pickle.load(s)             if r[2]&gt;=20000 and r[2]&lt;=30000:                 print(r)     except:             print("end of file")</pre>	<sup>1</sup> ∕ <sub>2</sub> mark for correctly opening and closing files <sup>1</sup> ∕ <sub>2</sub> mark for correct loop	
	OR	½ mark for correct split 1 mark for	
	(i)	correctly reading /	
	In pickle module, dump () method is used to convert (pickling) Python objects for writing data in a binary file	writing data ½ mark for	
	Whereas the load () function is used to read data from a binary file or file object.	printing data	
	(ii) import pickle as p		
	<pre>with open('emp.dat','rb') as f: L=p.load(f) for r in L: if r[2]&gt;5000: print("name=",r[0]) print("designation=",r[1]) print("salary=",r[2])</pre>		
	Note: Any other correct logic may be marked		

	A table can only have one primary key, but it can have multiple	½ mark for	1+4=5
	candidate key in a database. (any suitable example)	correct	
		definition	
(ii)		½ mark for	
imp	ort mysql.connector	correct	
myc	db=mysql.connector.connect(host="localhost",user="root",passwd="admin",dat	example	
abase	="SCHOOL")		
myc	cursor=mydb.cursor()		
wnii	le 1: n=int(input("enter -1 to evit / any other no to insert record into student table"))	½ mark for	
if	ch==-1:	ince outing	
	break	importing	
er	no=int(input("Enter Employee no"))	correct	
er	name=input("Enter Employee Name")	module	
e	dept=input("Enter dept name")		
sa	al=int(input("Enter salary"))		
my	cursor.execute("insert into EMP values ('"+str(eno)+"','"+ ename+"','" +edept +		
"' <i>,</i> '"+st	tr(sal)+"')")	1 mark for	
my	db.commit()	correct	
for x in	n mycursor:	connect()	
pnn	ι(x)		
	OR	½ mark for	
		correctly	
(i)		correctly accepting the	
(i)		correctly accepting the	
(i) Degra	<b>ee:</b> The total number of attributes which in the relation is called the	correctly accepting the input	
(i) Degra degra	<b>ee:</b> The total number of attributes which in the relation is called the ee of the relation.	correctly accepting the input 1 ½ mark for	
(i) Degre degre Cardin (ap)	<b>ee:</b> The total number of attributes which in the relation is called the ee of the relation. <b>nality:</b> Total number of rows present in the Table.	correctly accepting the input 1 ½ mark for	
(i) Degre degre Cardin (any	<b>ee:</b> The total number of attributes which in the relation is called the ee of the relation. <b>nality:</b> Total number of rows present in the Table. y suitable example)	correctly accepting the input 1 ½ mark for correctly	
(i) Degro degro Cardin (any	<b>ee:</b> The total number of attributes which in the relation is called the ee of the relation. <b>nality:</b> Total number of rows present in the Table. y suitable example)	correctly accepting the input 1 ½ mark for correctly displaying	
(i) Degre degre Cardin (any (ii)	<b>ee:</b> The total number of attributes which in the relation is called the ee of the relation. <b>nality:</b> Total number of rows present in the Table. / suitable example)	correctly accepting the input 1 ½ mark for correctly displaying data	
(i) Degre degre Cardin (any (ii) import mydb= e="SC	ee: The total number of attributes which in the relation is called the ee of the relation. nality: Total number of rows present in the Table. y suitable example) : mysql.connector =mysql.connector.connect(host="localhost",user="root",passwd="admin",databas CHOOL")	correctly accepting the input 1 ½ mark for correctly displaying data	
(i) Degre degre Cardin (any (ii) import mydb= e="SC mycur mycur mycur mycur	ee: The total number of attributes which in the relation is called the ee of the relation. nality: Total number of rows present in the Table. / suitable example) : mysql.connector =mysql.connector.connect(host="localhost",user="root",passwd="admin",databas CHOOL") sor=mydb.cursor() sor.execute("alter table emp add (bonus int(3))") sor.execute("desc emp")	correctly accepting the input 1 ½ mark for correctly displaying data	
(i) Degre Cardin (any (ii) import mydb= e="SC mycur mycur mycur	ee: The total number of attributes which in the relation is called the ee of the relation. nality: Total number of rows present in the Table. / suitable example) : mysql.connector =mysql.connector.connect(host="localhost",user="root",passwd="admin",databas CHOOL") sor=mydb.cursor() sor.execute("alter table emp add (bonus int(3))") sor.execute("desc emp")	correctly accepting the input 1 ½ mark for correctly displaying data	
(i) Degre degre Cardin (any (ii) import mydb= e="SC mycur mycur mycur for x ir prin	ee: The total number of attributes which in the relation is called the ee of the relation. nality: Total number of rows present in the Table. / suitable example) : mysql.connector =mysql.connector.connect(host="localhost",user="root",passwd="admin",databas :HOOL") sor=mydb.cursor() sor.execute("alter table emp add (bonus int(3))") sor.execute("desc emp") n mycursor: t(x)	correctly accepting the input 1 ½ mark for correctly displaying data	