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Subject: Computer Science (083) Marking Scheme Cum Model Answer-Sheet

SECTION-A(1*21=21 MARKS)		
QN	Answer of Question	
1.	Ans. True, as continue keyword skips remaining part of an iteration in a loop.	1
2.	Ans. (c) "uter", as it counts from 4 index to last index	1
3.	Ans: (b) True, as firstly "not" performed then "And" performed and at last "Or" performed.	1
	True or not True and False True or False and False True or False	
	True	
4.	Ans. (d) dict_student.update(dict_marks), as we use update method for dictionary merging with syntax dict1.update(dict2)	1
5.	Ans. (b) tuple, as Elements enclosed in parentheses() represents by tuple.	1
6.	Ans: (d) (40,60), as this expression will slice the given tuple starting with index position 3 and selecting every second element till index number 7.	1
7.	Ans. (c) None, as it is empty value.	1
8.	Ans. (c) 512, as 2**3**2= 2**9=512 is the answer.	1
9.	Ans. (b) Statement 4, as string's individual element can't assigned new value so S[0]= '@' # Statement 4 give error.	1
10.	Ans. (c) F=open('Notes.txt')	1
	print(F.read(10))	
	As read method in python is used to read at most n bytes from the file associated with the given file descriptor. If the end of the file has been	
	reached while reading bytes from the given file descriptor, os read()	
	method will return an empty bytes object for all bytes left to be read.	
11.	Ans. (a) Pickling, as pickling is used for object serialization in handling of Binary Files.	1
12.	Ans. (d) n is local and x is global variable	1
	As n is defined within function body and x is defined outside the function body.	
13.	Alter- Add command is used to add a new column in table in SQL.	1
14.	Ans. (b) DISTNICT, as DISTNICT Keyword is used to obtain Non- duplicated values in a SELECT query.	1
15.	Ans. (c) sum(), as it's used for summation of numeric values in a column.	1
16.	Ans. (a) Mycur.fetch(), as it's not a valid method for fetching.	1
17.	Ans. (c) Both Modualtion & Demodulation, as MODEM does both tasks.	1
18.	Ans. (c) HomePage, as it is the first page that normally view at a website.	1
19.	Ans: Topology is the way of connecting the networking devices.	1
20.	Ans: (a) Both A and R are true and R is the correct explanation for A As global variables are accessed anywhere in the program and local variables are accessed only within the boundary of loop/ condition/ function.	1

21.	Ans: b) Both A and R are true and R is not the correct explanation for A	1
	SECTION-B (2*7=14 MARKS)	
22	Valid identifier(s) (i)Total (iv) great (vi) li1 (viii) _Data As identifier(s) names may be started with alphabet or underscore. A	¹ ⁄ ₂ *4= 2
	digit may be there between the name.	٢
	(ii) @selute (iii) Que\$tion (v) 4 th Sem (vii) No#	
	As identifier(s) name does not have any special character except underscore. Name should not start with digit and not any space is there in name.	
23	i) Names of any two data types available in python: int, float or any other valid datatype in python	1+1 -2
	ii) Any 2 operators name used in python: Arithmetic, Logical, Relational or any other valid operator in python.	-2
24	(i)A) str="PYTHON@LANGUAGE"	2
•	OR	
	B) d=dict()	
	(ii)A) s="LANGUAGE"	
	I=IIST(S)	
	B) t=tuple()	
25	Lower = r.randint(1,3) means Lower will have value 1,2, or 3	2
•	Upper =r.randint(2,4) means Upper will have value 2, 3, or 4	
	So K will be from $(1, 2, 3)$ to $(2, 3, 4)$	
	Means If $K=1$, then upper limit (2,3,4) If $K=2$, then upper limit (2,3,4)	
	If $K=3$, then upper limit (2,3,4) If $K=3$, then upper limit (2,3,4)	
	So correct answer (ii) 30#40#50#	
	Maximum values of variables Lower and Upper are 3 and 4.	
26	COUNT(*) returns the count of all rows in the table,	2
•	whereas COUNT (COLUMN_NAME) is used with Column_Name	
	passed as argument and counts the number of non-NULL values in	
	Example:	
	A MySQL table, sales have 10 rows with many columns, one column	
	name is DISCOUNT.	
	This DISCOUNT column has 6 valid values and 4 empty/ null	
	Values. When we run the Following queries on sales table.	
	FROM sales:	
	COUNT(*)	
	10	
	SELECT	
	COUNT(DISCOUNT)	
	As in table, there are 10 rouge as equat(*) gives 10 and discount	
	column is having 6 valid values with 4 NULL values so it gives 6.	
27	i)	1+1
		•

•	 A) Default constraint should be ap it the default value when column of OR B) Unique constraint should be app NULL value is allowed in that colur allowed. ii) A) SQL command to add one more command to add one more command. 	oplied on a table's column to provide does not have any value. blied on a table's column so that nn and duplicate values are not	=2
	named CELL. Column name is CE type should be added in the table Alter table CELL ADD CELL_ID(10) int; OR	LL_ID with size 10 of integral	
	DROP table CELL;		
28	 (A) VOIP-Voice Over Internet Protocol Utility-VoIP is used to transfer audio (voice) and video over internet URL- Uniform Resource Locator Utility-Place for typing website names in web browser. 		
	(B)		
	IP Address	MAC Address	
	Internet Protocol Address	Media Access Control Address	
	It is 4 bytes address in IPV4 and 6 bytes address in IPV6	It is 6 bytes address.	
	Or any other valid difference betw (1 mark for ANY ONE difference)	een the two.	
20	SECTION-C	(3^3= 9 Marks)	3
	<pre>A) def countlines_et(): f=open("report.txt",'r") lines=f.readlines() linee=0 linet=0 for i in lines: if i[0]=='E': linee+=1 elif i[0]=='T': linet+=1 print("No.of Lines with E:",linee print("No.of Lines with T:",linet countlines_et() OR</pre>	e))	5
	B) def show_todo(): f=open("abc.txt",'r') lines=f.readlines() for i in lines: if "TO" in i or "DO" in i: print(i) show_todo()		
30	A)		3

	data = [1,2,3,4,5,6,7,8]	
	stack - []	
	def pueb(etaek, deta):	
	for x in data:	
	if $x = 0$	
	$\frac{1}{x} \frac{x}{2} = 0.$	
	stack.append(x)	
	def pop(stack):	
	if len(stack)==0:	
	return "stack empty"	
	else:	
	return stack.pop()	
	push(stack,Data)	
	print(pop(stack)	
	$(\frac{1}{2})$ mark should be deducted for all incorrect syntax. Full marks to	
	beawarded for any other logic that produces the correct result.)	
	······································	
	OR	
	B)	
	def push(EventDetails):	
	BigEvents=[]	
	count=0	
	for i in EventDetails:	
	if EventDetails[i]>200:	
	BigEvents.append(i)	
	count+=1	
	print("The count of elements in the stack is",count)	
	def pop(EventDetails):	
	if len(EventDetails)==0:	
	return "Dictionary is empty"	
	also:	
	roturn EventDetails pop()	
	nuch(EvontDotaile)	
	print(pop(EvontDotails))	
	(1/2 mark should be deducted for all incorrect syntax. Full marks to	
	(/2 mark should be deducted for an inconect syntax. Full marks to be awarded for any other logic that produces the correct result.)	
31	A)	1*3
51	A) (i) SELECTEMD NAME RASICIDA, HDAINDS AS "CDOSS	-3
	(I) SELECT EMIF_NAME, DASICTDATI INATIVES AS GROOS	-0
	(i)LIDDATE EMDLOVEE SET DA-DA+0.03*RASIC:	
	(II) OF DATE EIVIFLOTEE SET DA=DA+0.05 DASIC,	
	(III)ALTER TABLE EIVIPLOTEE DROP COLOIVIN EIVIP_DESIG,	
	(I) SELECT COUNT() FROM EMPLOTEE,	
	(II) SELECT FROM EMPLOYEE ORDER BY DASIC desc;	
	(III) SELECT SUIVI(IIIA) FRUIVI EIVIPLUTEE, SECTION D (4*4- 46 Marka)	
32	A)	1_2
52	i) When the value passed in the index operator is greater than the actual	=4
•	size of the tuple or list. Index Out of Pange is thrown by pythen	- •
	size of the tuple of list, index Out of Manye is thrown by python.	
	v_{2}	
	value-[1,2,0,4] data-0	
	uala-u trv:	
	uy. data-valuo[4]	
	uala-value[4]	

	except IndexError	
	print("list index out of range is not allowed" end=")	
	except.	
	print("Some Error occurred" end=")	
	OR	
	B)	
	i) When the division or module by zero takes place for all numeric types	
	7 oroDivisionError Exception is thrown by python	
	II) dof division/www	
	uy.	
	UIV=X/y	
	print(div, end-)	
	except ZeroDivisionError as e:	
	print(ZeroDivisionError Exception occured , e, end=)	
	except:	
22	print(Some Error occurred , end=)	2.2
33	Import CSV dof AddNowDoo(Country Conital);	2+2 _1
•	def AddinewRec(Country,Capital):	=4
	f=open("CAPITAL.CSV", a")	
	twriter=csv.writer(t)	
	fwriter.writerow([Country,Capital])	
	t.close()	
	def ShowRed():	
	with open("CAPITAL.CSV","r") as NF:	
	NewReader=csv.reader(NF)	
	for rec in NewReader:	
	print(rec[0],rec[1])	
	AddNewRec("INDIA", "NEW DELHI")	
	AddNewRec("CHINA", "BEIJING")	
	ShowRec()	
	Output:	
	INDIA NEW DELHI	
	CHINA BEIJING	
34	i)SELECT SUM (PERIODS), SUBJECT FROM SCHOOL GROUP BY	1*4
	SUBJECT ;	=4
	ii) SELECT MIN(EXPERIENCE), MAX(CODE) FROM SCHOOL;	
	iii)SELECT TEACHERNAME, GENDER FROM SCHOOL, ADMIN	
	ŴHERE	
	DESIGNATION = 'COORDINATOR' AND	
	SCHOOL.CODE=ADMIN.CODE;	
	iv)	
	 A) SELECT COUNT(DISTINCT SUBJECT) FROM SCHOOL; 	
	OR	
	B) SELECT COUNT(), GENDER FROM ADMIN GROUP BY	
	GENDER;	
	(1 mark for each correct query)	
35	import mysql.connector as cnt	4
•	def Emp_Database():	
	con=cnt.connect(host="localhost", user="root", password="tiger",	
	database="company")	
	mycursor= con.cursor()	

	print("Display Employee whose age is more than 55 years:") mycursor.execute("select * from Emp where age>55")	
	EmpRec= mycursor.fetchall()	
	for rec in EmpRec:	
	SECTION-E (2*5= 10 Marks)	
36	SECTION-E (2*5= 10 Marks) Binary Files- It is usually much smaller than a text file.For image, video and audio data this type of file is important and it's extension is .det or .dat. Compiler does not need to convert these files as these files are in the machine readable form hence these files consumes less time to execute and process faster. (a) import pickle def AddOrder(): f=open("Stock.dat",'ab') OrderId=input("Enter Order Id") MedicineName=input("Enter Medicine Name") Qty=int(input("Enter Price:")) data=[OrderId,MedicineName,Qty,Price] pickle.dump(data,f) f.close() AddOrder()	1+2 +2= 5
	<pre>(b) def DisplayPrice(): f=open("Stock.dat",'rb') try: while True: data=pickle.load(f) if data[3]>500: print(data[0],data[1],data[2],data[3],sep="\t") except: f.close() DisplayPrice()</pre>	
37	i) ADM Block Justification- It has maximum number of computers. Reduce traffic. ii) wired medium is UTP/STP cables DEVELOPMENT HUMANRESOURCE LOGISTICS ADM	1*5 =5
	 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) (c)OFC-Optical Fiber cable, this connection is high-speed wired communication medium. OR LAN will be set up among computers connected in Campus. 	