KENDRIYA VIDYALAYA SANGATHAN, AHMEDABAD REGION

FIRST PRE-BOARD EXAMINATION, 2020

SUBJECT : COMPUTER SCIENCE (NEW) – 083

M.M:70

CLASS : XII

TIME : 3 HOURS

MARKING SCHEME

Question	Part – A	Marks		
No.		Allocated		
	Section – I			
1	a) 5Total	1		
	Reason : An identifier cannot start with a digit.			
2	24	1		
3	(i) math (ii) random (¹ / ₂ mark for each module)	1		
4	Valid operators : (ii) is (iii) ^ (1/2 mark for each operator)	1		
5	(a) Tp1 = ("a", "b")	1		
6	(d) Error	1		
7	Ans. 4	1		
8	(i) break (iv) while (1/2 mark for each option)	1		
9	Network Congestion	1		
10	It is an example of phishing	1		
11	ALTER	1		
12	LIKE	1		
13	getcwd()	1		
14	Degree – it is the total number of columns in the table.	1		
	Cardinality – it is the total number of tuples/Rows in the table.			
15	Guided – Twisted pair, Coaxial Cable, Optical Fiber (any one)	1		
	Unguided – Radio waves, Satellite, Micro Waves (any one)			
16	d) d = All of the mentioned above	1		
17	Answer - noitanima	1		
18	b) Count(*)	1		
19	Wi-Max – Worldwide Interoperability for Microwave Access	1		
20	True	1		
21	Gateway	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	Answers:	1*4=4
	a) Create table WORKER(WORKER_ID varchar(3), FIRST_NAME	
	varchar(10), LAST_NAME varchar(10), SALARY integer,	
	JOINING_DATE Date, DEPARTMENT varchar(10));	
	b) WORKER_ID	
	c) alter table worker modify FIRST_NAME varchar(20);	
	d) DELETE FROM WORKER;	
	e) Desc WORKER / Describe WORKER;	
23	Answers:	1*4=4
	a) csv	
	b) writerow(fields)	
	c) writerows(rows)	
	d) csv.reader	
	e) row[0]	
	Part – B	
	Section – I	
24	a) 24	2
	b) True	
25	URL stands for Uniform Resource Locator and it is the complete address	2
	of a website or web server, e.g.https://www.google.co.in- name of the	
	protocol : https, Web service : www, name of the server: google, DNS	
	Name : co, Name of the country site belongs : in (india)	
	OR	
	Cookies: .Cookies are messages that a web server transmits to a web	
	browser so that the web server can keep track of the user's activity on a	
	specific website. Cookies are saved in the form of text files in the client	
	computer.	
	Hacking: It is a process of accessing a computer system or network	
	without knowing the access authorization credential of that system.	
	Hacking can be illegal or ethical depending on the intention of the	
	hacker.	

26	a) IPR – Intellectual Property Rights	2				
	 b) SIM – Subscriber's Identity Module 					
	 c) IMAP – Internet Message Access Protocol 					
	d) HTTP – Hyper text transfer Protocol					
27	A local scope is variable defined within a function. Such variables are	2				
	said to have local scope. With example					
	A global variable is a variable defined in the ;main' program (_main_					
	section). Such variables are said to have global scope. With example					
	OR					
	Python supports three types of formal arguments :					
	1) Positional arguments (Required arguments) - When the function call					
	statement must match the number and order of arguments as defined in					
	the function definition. Eg. def check (x, y, z) :					
	2) Default arguments – A parameter having default value in the function					
	header is known as default parameter. Eg. def interest(P, T, R=0.10) :					
	3) Keyword (or named) arguments- The named arguments with assigned					
	value being passed in the function call statement. Eg. interest (P=1000,					
	R=10.0, T = 5)					
28	def result_even():	2				
	<u>x = int(input("Enter a number"))</u>					
	if (x % 2 <u>==</u> 0):					
	print ("You entered an even number")					
	else:					
	print("Number is odd")					
	result_even()					
29	OUTPUT – (i) 30-40-50-	2				
	Minimum value of BEGIN: 1					
	Minimum value of LAST: 2					
30	Primary Key:	2				
	A primary key is used to ensure data in the specific column is unique. It					
	is a column cannot have NULL values. It is either an existing table					
	column or a column that is specifically generated by the database					
	according to a defined sequence.					

	Example: Refer the figure –				
	STUD_NO, as well as STUD_PHONE both, are candidate keys for				
	relation STUDENT but STUD_NO can be chosen as the primary key				
	(only one out of many candidate keys).				
	Foreign Key:				
	A foreign key is a column or group of columns in a relational database				
	table that provides a link between data in two tables. It is a column (or				
	columns) that references a column (most often the primary key) of				
	another table.				
	Example: Refer the figure –				
	STUD_NO in STUDENT_COURSE is a foreign key to STUD_NO in				
	STUDENT relation.				
	STUDENT	l			
	STUD_NO STUD_NAME STUD_PHONE STUD_STATE STUD_COUNT STUD_AG 1 RAM 9716271721 Haryana India 20	I			
	2 RAM 9898291281 Punjab India 19 3 SUJIT 7898291981 Rajsthan India 18 4 SURESH Punjab India 21	l			
	Table 1 STUDENT_COURSE	I			
	STUD_NO COURSE_NO COURSE_NAME 1 C1 DBMS	I			
	2 C2 Computer Networks 1 C2 Computer Networks Table 2	l			
24		-			
31	Commit : MySqlConnection.commit() method sends a COMMI	2			
	statement to the MySqI server, committing the current transaction.	I			
	Rollback : MySqlConnection.rollback reverts the changes made by the	I			
~~	current transaction.				
32	WHERE clause is used to select particular rows that satisfy a condition	2			
	whereas HAVING clause is used in connection with the aggregate				
	function, GROUP BY clause.				
	For ex. – select * from student where marks > 75;				
	This statement shall display the records for all the students who have				
	scored more than 75 marks.				
	On the contrary, the statement – select * from student group by stream				
	having marks > 75; shall display the records of all the students grouped				
	together on the basis of stream but only for those students who have				
	scored marks more than 75.				
		l			

33	Ans: The new string is : S1U3E5Ts	2
	(1/2 mark for each change i.e. S 1 3 E 5 s)	
	SECTION - II	
34	def bubble_sort(Ar, n):	3
	print ("Original list:", Ar)	
	for i in range(n-1):	
	for j in range(n-i-1):	
	if Ar[j] > Ar[j+1]:	
	Ar[j], Ar[j+1] = Ar[j+1], Ar[j]	
	print ("List after sorting :", Ar)	
	Note: Using of any correct code giving the same result is also	
	accepted.	
35	def count_W_H():	3
	f = open ("Country.txt", "r")	
	W,H = 0,0	
	r = f.read()	
	for x in r:	
	if x[0] == "W" or x[0] == "w":	
	W=W+1	
	elif x[0] == "H" or x[0] == "h":	
	H=H+1	
	f.close()	
	print ("W or w :", W)	
	print ("H or h :", H)	
	OR	
	def countwords():	
	s = open("Quotes.txt","r")	
	f = s.read()	
	z = f.split()	
	count = 0	
	for l in z:	
	count = count + 1	
	print ("Total number of words:", count)	
	Note: Using of any correct code giving the same result is also accepted.	

36	OUTPUT			3	
	(i)	43000			
	(ii)	Max (DOB)	Min(DOB)		
		08-10-1995	05-071993		
	(iii)	Gender	Count(*)		
		F	3		
		Μ	3		
37	def AddC	Customer(Custom	er):	3	
	CStake.append(Customer)				
	If len(CStack)==0:				
	print	("Empty Stack")			
	else:				
	print	(CStack)			
			OR		
	def Delet	teCustomer():			
	if (CStack ==[]):				
	print("There is no Customer!")				
	else:				
	print("Record deleted:",CStack.pop())				
	Section – III				
38	Answers	:		5	
	(i)	YTOWN	as it has the maximum number of computers		
	It is closet to all other locatios. 80-20 Network rule.				
	(ii) Or	otical Fiber			
	Layout:				
	XCITY	YHUB			
	Head O	ffice	TOWN VILLAGE 3		
			VILLAGE 2		
	(iii) Swit (iv) Vide (v) Firev	ch or Hub eo conferencing or ' vall- Placed with the	VoIP or any other correct service/protocol e Server at YHUB.		

39	ANSWERS:-	5			
	(i) SELECT TNAME, CITY, SALARY FROM TRAINER ORDER BY HIREDATE;				
	(ii) SELECT TNAME, CITY FROM TRAINER WHERE HIREDATE BETWEEN				
	(iii) SELECT TNAME, HIREDATE, CNAME, STARTDATE FROM TRAINER,				
	(iv) SELECT CITY, COUNT(*) EPOM TRAINER GROUP BY CITY:				
	(v) SELECT TID, TNAME, FROM TRAINER WHERE CITY NOT IN('DELHI',				
40	'MUMBAI');	5			
40	Answer (Using or any correct code giving the same result is also				
	accepted) import pickle				
	f = open ("emp dat" "rb")				
	n = 0				
	trv:				
	while True: rec = pickle.load(f)				
	if rec[2] > 20000:				
	print(rec[0], rec[1], rec[2], sep="\t")				
	num = num + 1 except: f.close()				
	OR				
	import pickle				
	def add_record():				
	fobj = open("Stu.dat","ab")				
	rollno =int(input("Roll no:"))				
	name = int(input("Name:"))				
	marks = int(input("Marks:"))				
	data = [rollno, name, marks]				
	pickle.dump(data,fobj)				
	fobj.close()				
	def Search_record():				
	f = open("Stu.dat", "rb")				


