अनुक्रमांक/ROLL NO

केंद्रीय विद्यालय संगठन ,जयपुर संभाग KENDRIYA VIDYALAYA SANGATHAN, JAIPUR REGION PRACTICE PAPER-II

कक्षा/ CLASS :XII

विषय /SUB : कंप्यूटर विज्ञानं (83) /COMPUTER SCIENCE (83)

अधिकतम अवधि / Time Allowed :03 Hours सामान्य निर्देश / General Instructions अधिकतम अंक Maximum Marks: 70

- 1. This question paper contains five sections, Section A to E.
- 2. All questions are compulsory.
- 3. Section A has 21 questions (1 to 21) carrying 01 mark each.
- 4. Section B has 07 Very Short Answer type questions (22 to 28) carrying 02 marks each.
- 5. Section C has 03 Short Answer type questions (29 to 31) carrying 03 marks each.
- 6. Section D has 04 Long Answer type questions (32 to 35) carrying 04 marks each.
- 7. Section E has 02 questions (36 to 37) carrying 05 marks each.
- 8. All programming questions are to be answered using Python Language only.
- 9. In case of MCQ, text of the correct answer should also be written.

	SECTION-A (21*1=21 Marks)							
Q.No	Question							
1.	State True or False "continue keyword skips remaining part of an iteration in a loop"							
2.	Select the correct output of the code: >>> St="Computer" >>> print(St[4:])							
	(a) "Comp" (b) "pmoC" (c) "uter" (d) "mput"							
3.	print(True or not True and False)	1						
	Choose one option from the following that will be the correct output after executing the above python expression.							
	a) False b) True c) or d) not							
4.	Given the following dictionaries	1						
	dict_stud = {"rno" : "53", "name" : 'Rajveer Singh'}							
	dict_mark = {"Accts" : 87, "English" : 65}							
	Which statement will merge the contents of both dictionaries?							
	(a) dict_stud + dict_mark (b) dict_stud.add(dict_mark)							
	(c) dict_stud.merge(dict_mark) (d) dict_stud.update(dict_mark)							
5.	Consider a declaration L=(1,'Python','3.14')	1						
	Which of the following represents the data type of L?							
	(a) list (b) tuple (c) dictionary (d) string	1						
6.	Given a tuple tupl=(10,20,30,40,50,60,70,80,90)							
	What will be the output of print (tupl[3:7:2])?							
7.	(a) (40,50,60,70,80) (b) (40,50,60,70) (c) [40,60] (d) (40,60)	1						
1.	When a Python function does not have return statement then what it returns?	'						
	(a) int (b) float (c) None (d)Give Error							
8.	What will the following expression be evaluated to in Python?	1						

	print(2**3**2) a) 64 b) 256 c) 512 d) 32	
9.	Which of the following statement(s) would give an error after executing the	1
	following code? S="Welcome to class XII" #Statement 1	
	S="Welcome to class XII" #Statement 1 print(S) # Statement 2	
	S="Thank you" #Statement 3	
	S[0]= '@' #Statement 4	
	S=S+"Thank you" #Statement 5	
	(a) Statement 3 (b) Statement 4	
	(c) Statement 5 (d) Statement 4 and 5	
10.	Which of the following option is the correct python statement to read and display	1
	the first 10 characters of a text file "Notes.txt"?	
	(a) F=open('Notes.txt') (b) F=open('Notes.txt') print(F.load(10)) print(F.dump(10))	
	(c) F=open('Notes.txt') (d) F=open('Notes.txt')	
	print(F.read(10)) print(F.write(10))	<u> </u>
11.	Which Python approach is used for object serialization in handling of Binary File?	1
12.	(a) Pickling (b) Un-pickling (c) Merging (d) None of these In the given program, identify which are local and global variables?	1
	in the given program, lacinary which are local and global variables.	
	def change():	
	n=10	
	x=5	
	print(x)	
	a) n and x both are local variables b) n and x both are global variables	
	c) n is global and x is local variable d) n is local and x is global variable	
13.	Fill in the blank:	1
	command is used to add a column in a table in SQL.	
14.	Keyword is used to obtain Non-duplicated values in a SELECT query.	1
	(a) ALL (b) DISTINCT (c) SET (d) HAVING	
15.	Which SQL function returns the sum of values of a column of numeric type? (a)total() (b)add() (c) sum() (d) All of these	1
16	Which of the following is not valid cursor function while performing database	1
	operations using python. Here Mycur is the cursor object?	
	(a) Mycur.fetch() (b) Mycur.fetchone()	
	(c) Mycur.fetchmany(n) (d) Mycur.fetchall()	
17.	What Modem does?	1
	a) Modulation (b) Demodulation	
	c) Both Modualtion & Demodulation (d) Not any	
18.	Fill in the blank:	1
	is the first page that normally view at a website.	
	(a) First Page (b) Master Page (c) Home Page (d) Login Page	
19.	Fill in the blank:	1
	is the way of connecting the networking devices.	1
	is the way of connecting the networking devices.	

` '	Both A and R are true and R is not the correct explanation for A	
` '	A is True but R is False	
_ ` '	A is false but R is True	1
20.	Assertion (A): A variable declared as global inside a function is visible outside the function with changes made to it inside the function.	1
	Reasoning (R): global keyword is used to change the value of a global variable.	
	rtoacerning (11). grobal keywera le acea le change the value et a global valuable.	
21.	Assertion (A): COUNT(*) function count the number of rows in a relation.	1
21.	Reasoning (R): DISTINCT ignores the duplicate values.	'
	The state of the s	
	SECTION-B (7 * 2= 14 Marks)	
22.	Which of the following can be used as valid identifier(s) in Python?	2
	(i) Total (ii) @selute (iii) Que\$tion (iv) great	
	(v) 4 th Sem (vi) li1 (vii) No# (viii) _Data	
23.	(i)Write the names of any two data types available in python.	1+1=2
	(ii)Write any 2 operators name used in python.	
24.	Write the Python statement for each of the following tasks using BUILT_IN	1+1=2
	functions/ methods only:	
	i) str="PYTHON@LANGUAGE" (A) To print the above string from index 2 apwords	
	(A) To print the above string from index 2 onwards. OR	
	(B) To initialize an empty dictionary named as d.	
	(=)	
	ii) Write the Python statement for each of the following tasks using BUILT_IN	
	functions/ methods only:	
	(A) s="LANGUAGE"	
	To convert the above string into list.	
	OR (B) To initialize an empty tuple named as t.	
25.		2
25.	Find possible o/p (s) at the time of execution of the program from the following code? Also specify the maximum values of variables Lower and Upper.	
	import random as r	
	AR=[20, 30, 40, 50, 60, 70];	
	Lower =r.randint(1,3)	
	Upper =r.randint(2,4)	
	for K in range(Lower, Upper +1):	
	print (AR[K],end="#")	
	(i) 10#40#70# (ii) 30#40#50#	
26	(iii) 50#60#70# (iv) 40#50#70#	2
26.	Differentiate between COUNT(*) and COUNT(COLUMN_NAME) with example.	2
27.	(i)A) What constraint should be applied on a table's column to provide it the	4
	default value when column does not have any value.	
	OR	
	B) What constraint should be applied on a table's column so that NULL	
	value is allowed in that column and duplicate values are not allowed.	
	(ii)	
	A) Write an SQL command to add one more column in previously defined	
	table, named CELL. Column name is CELL_ID with size 10 of integer	
	type should be added in the table.	
	OR B) Write an SQL command to permanently remove the table CELL from	
	database.	
L		I .

A) Write the full forms of the URL and voll* and their utility? OR B) Mention any two differences between IP and MAC address in networking. SECTION-C (3*3 = 9 Marks) 29. A) Write a method /function countlines, et () in python to read lines from a text file report.txt, and COUNT those lines which are starting either with 'E' and starting with 'T' respectively, And display the Total count separately. For example: if REPORT.TXT consists of THE PROGRAMMING IS FUN FOR PROGRAMMER. ENTRY LEVEL OF PROGRAMMING CAN BE LEARNED FROM USEFUL FOR VARIETY OF USERS." Then, Output will be: No. of Lines with E: 1 No. of Lines with T: 1 OR B) Write a method/function show_todo()/in python to read contents from a text file abc. bt and display those lines which have occurrence of the word "TO" or "DO" For example: If the content of the file is "THIS IS IMPORTANT TO NOTE THAT SUCCESS IS THE RESULT OF HARD WORK. WE ALL ARE EXPECTED TO DO HARD WORK. The method/function should display: THIS IS IMPORTANT TO NOTE THAT SUCCESS IS THE RESULT OF HARD WORK. WE ALL ARE EXPECTED TO DO HARD WORK. 30. A) A list of numbers is used to populate the contents of a stack using a function push(stack, data) where stack is an empty list and data is the list of numbers. The function should push all the numbers that are even to the stack. Write the function replicates in a member of persons attending the events— (EventName: NumberOfPersons). The function should push the names of those events in the stack named 'BigEvents' which have number of persons greater than 200. Also display the count of elements pushed on to the stack. Write the function pop(EventDetails) that removes the top element of the stack on its each call. Also write the function calls. For example: If the dictionary contains the following data: EventDetails = ("Marriage", 300, "Graduation Party":1500, "Birthday Party", 80, 'Get together":150) The stack should contain:	00	A) Maite the full former of the LIDL and MalD and their (22, 0	
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		EventDetails ={"Marriage":300, "Graduation Party":1500,	

	Marriage							1	
	Graduation Party								
	The output should be: The count of elements in the stack is 2								
31.									
	keep ready for tax calculation. After creation of the table, he has entered data of 5								
	employees in the Employee table.								
	emp_id emp_name								
	E01 Naveen Roy Manager 70000 20000 8000 7000								
	E02	Pawan Ahuja	Junior Clerk	20000	2000	2500	į 2000 į		
	E03	Kalpana Rani	Junior Clerk Public Expert Director	50000 90000	5000	4500	2500 900		
	E05	Seeta Johan	Production Manager	80000	35000	10500	850		
	±+	+			·	+	++		
	Based o	on the table given	above write the SQL (Juarias:					
	A)	in the table given	above write the SQL (gueries.					
	,		the Emp_Name and (Gross_sa	alary of e	ach emp	oloyee.		
		`	asic+da+hra+nps)	naativa k	socio col	on, of all			
	•	(ii) To Increas employees	se the DA by 3% of res s.	pective t	Dasic said	ary or an			
	(• •	the Attribute emp_des	ig from tl	ne table.				
	D)		OR						
	B)	(i) To display	the total number of en	nnlovees	in Empl	ovee tah	مام		
		• • • • • • • • • • • • • • • • • • • •	the employees record		•	•	ne.		
		basic_sala	ary respectively.	_					
		(iii) To display	the total hra of employ	ees in E	mployee	e table.			
			SECTION-D (4*4= 16	Marks)					
32	A)	· IndevError Eve	eption raised in Python	2				1+3=4	
) WHEH IS	indexenti exce	puon raiseu irri yulon	:					
			handle IndexError? T						
			ange is not allowed" in ror occured" in case o				ption,		
	and the file	ssaye Sulle El	OR	n arry Olf	ICI EXCE	ριίση.			
	B)								
	i) When is	ZeroDivisionErro	or Exception raised in	Python?					
	ii) Write a f	function division() that accepts two arg	uments	The fund	tion sho	uld be		
	,	•	,						
	able to catch an exception such as ZeroDivisionError Exception, and the message "Some Error occured" in case of any other Exception. 33 Aman has recently been given a task on CAPITAL.CSV which contains Country and								
33									
	Capital as	uala iui iecuius	1113 6 111011.						
	For Examp		IEW DELHI"						
	\\/\mid======41	·	"BEIJING"	Alama:					
	vvrite pytho	on code for these	e two user defined fund	uons:					
	(i) AddNewRecord(): insertion of new records in file.								
		ShowRecord():	to display all the record	ds from f	ile.				

CODE				SCHOOL				
CODE	TEACHERN	NAME	SUBJECT	DOJ	PERIO	ODS	EXPERIENCE	
1001	RAVI SHAN		ENGLISH	12/03/2000	24		10	
1009	PRIYA RAI		PHYSICS	03/09/1998	26		12	
1203	LISA ANAN	D	ENGLISH	09/04/2000	27		5	
1045	YASHRAJ		MATHS	24/08/2000	24		15	
1123	GANAN		PHYSICS	16/07/1999	28		3	
1167	HARISH B		CHEMISTR		27		5	
1215	UMESH		PHYSICS	11/05/1998	22		16	
			TABLE:			,		
		CODE	GENDER	DESIGNATION				
		1001	MALE	VICE PRINCIP				
		1009	FEMALE	COORDINATO				
		1203	FEMALE	COORDINATO	R			
		1045	MALE	HOD				
		1123	MALE	SENIOR TEAC				
		1167	MALE	SENIOR TEAC	HER			
	SQL queries fo	1215	MALE	HOD				
iii)Display teachername, gender by joining both tables on the basis of code ATTRIBUTE and the designation should be "COORDINATOR. iv) (A) Display the total number of different subjects in school relation. OR (B) To display the total number of Males and Females separately with gender in ADMIN table.						the	basis of code	
iv) (A) Dis (B) To	BUTE and the play the total display the to	e designa number	ation should	be "COORDINA ubjects in schoo OR	TOR.	on.		2
iv) (A) Dis (B) To ADMIN Aarya I	play the total display the total display the total table. has created a EmpNo – EmpName Age– integ Salary – in he following t	number of tall numb a table na integer ateger atege	er of Males and Emp in the exists in a ImpNo, Empirecords of Em	be "COORDINA" ubjects in schoo OR and Females se n MySQL: ity between Pyt	TOR. of relative parate whoman	on. ly with ad MY ed co	h gender in SQL: ompany. to be accepted	2
iv) (A) Dis (B) To ADMIN Aarya I	play the total display the total display the to table. nas created a EmpNo – EmpName Age– integ Salary – in he following t • Userr • Passy • Host • The d from t	number of tall numb a table na integer at establishame - roword - tig allowed by table letails (Enter user. lay All Reprogram	er of Males and Emp in exists in a ImpNo, Emplored in python	be "COORDINA" ubjects in school OR and Females se MYSQL: MYSQL databas Name, Age and	TOR. of relative parate show an	on. ly with ad MY ed co	h gender in SQL: ompany. to be accepted	2

Hitech Info Limited wants to set up their computer network in Bangalore

campus having four buildings. Each block has a number of computers that are required to be connected for ease of communication, resource sharing and data security.

You as a network expert have to suggest answers to these parts (a) to (e) raised by them.

DEVELOPMENT HUMANRESOURCE

LOGISTICS ADM

Shortest distances between various blocks

Block DEVELOPMENT to Block HUMANRESOURCE -- 50 m
Block DEVELOPMENT to Block ADM-- 75 m
Block DEVELOPMENT to Block LOGISTICS-- 80 m
Block HUMANRESOURCE to Block ADM-- 110 m
Block ADM to Block LOGISTICS 140 m

Number of computers installed at various blocks Block Number of Computers

DEVELOPMENT	105
HUMANRESOURCE	130
ADM	190
LOGISTICS	55

- i) Suggest the most suitable block to host the server. Justify your answer.
- ii) Suggest the wired medium and Draw the cable layout (Block to Block) to economically connect various blocks.
- iii) Suggest the placement of the following devices with justification:
 - (a) Hub/Switch
- (b)Repeater
- iv) Suggest the device that should be placed in the Server building so that they can connect to Internet Service Provider to avail Internet Services.
- v) A) What is the Suggestion for the high-speed wired communication medium between Bangalore Campus and Mysore campus to establish a data network.
- (a) TWP Cable
- (b)CoAxial Cable
- (c) OFC
- (d) UTP Cable

5

OR

B) What type of network (PAN/ LAN/ MAN/ WAN) will be set up among the computers connected in the Campus?

_____*___*____*____*____*____*____