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SAMPLE PAPER-4

CLASS :XII

SUBJECT: COMPUTER SCIENCE (83)

Time Allowed :03 Hours

General Instructions

- This question paper contains 37 questions.
- All questions are compulsory. However, internal choices have been provided in some questions. Attempt only one of the choices in such questions
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- Section C consists of 3 questions (29 to 31). Each question carries 3 Marks.
- Section D consists of 4 questions (32 to 35). Each question carries 4 Marks.
- Section E consists of 2 questions (36 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In the case of MCO, the text of the correct answer should also be written

0	Question	Marks				
S. No						
INU						
	SECTION A					
1	State True or False:	1				
	"In a Python loops can also have else clause"					
2	What is the output of the following code?					
	Text = 'Happy hour12-3'					
	L= " "					
	for i in range(len(Text)):					
	if Text[i].isupper():					
	L=L+Text[i].lower()					
	elif Text[i].islower():					
	L=L+Text[i].upper()					
	elif Text[i].isdigit():					
	$\begin{array}{c} \text{elif } I \text{ ext[i].isdigit():} \\ \text{L=L+(Text[i]*2)} \end{array}$					
	else:					
	L=L+'#'					
	print(L)					
	(A)hÀPPY#HOUR1122#33					
	(B)Happy#hOUR12#3					
	ChAPPY#HOUR112233					
	D)Happy Hour11 22 33 #					
3	Consider the given expression:	1				
	17%5==2 and 4%2>0 or 15//2==7.5					
	Which of the following will be correct output if the given expression is evaluated?					
	(a)True (b) False (c)None (d)Null					
4	Select the correct output of the code:	1				
	s = "Question paper 2022-23"					

Maximum Marks : 70

	s= s.split('2')	
	print(s)	
	a. ['Question paper', '0', ", '-', '3']	
	D. (Question paper, $0, -, 3$)	
	c. [Question paper , 0, 2, , -, 5] d. ('Question paper' '0' '2' " '-' '3')	
5	What will be the output of following code if	1
Ŭ	a = "abcde"	
	a [1:1] == a [1:2]	
	type (a[1:1]) == type (a[1:2])	
6	Select the correct output of the code:	1
	a = "foobar"	
	a = a.partition("o")	
	print(a)	
	(a) ["fo","","bar"]	
	(D) [T, 00, DAF] (c) ["f" "c" "ber"]	
	(C) [I, O, DAI] (d) ("f" "o" "obar")	
7	State whether the following statement is True or False:	1
'	An exception may be raised even if the program is syntactically correct.	1
8		1
	Identify the output of the following python code: 1	
	D={1:"one",2:"two", 3:"three"}	
	L=[]	
	for k,v in D.items():	
	if 'o' in v:	
	L.append(k)	
	print(L)	
	(a) $\begin{bmatrix} 1 & 2 \end{bmatrix}$ (b) $\begin{bmatrix} 1 & 3 \end{bmatrix}$ (c) $\begin{bmatrix} 2 & 3 \end{bmatrix}$ (d) $\begin{bmatrix} 3 & 1 \end{bmatrix}$	
	(a) [1,2] (b) [1,3] (c)[2,3] (d)[3,1]	
9	(a) [1,2] (b) [1,3] (c)[2,3] (d)[3,1] Which of the following is not a tuple in python?	1
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	Which of the following statements should be given in the blank for # Missing statement, if the output produced is 70?				
	a. global ab. global b=70c. global bd. global a=70				
13	Which of the following commands is not a DDL command?	1			
	1 (a) DROP (b) DELETE (c) CREATE (d) ALTER				
14	Which of the following keywords will you use in the following query to	1			
	display the unique values of the column dept_name?				
	(a)All (b) key (c) Distinct (d) Name				
15	What is the maximum width of numeric value in data type int of MySQL.	1			
	a. 10 digits b. 11 digits				
16	C. 9 digits $d. 12 \text{ digits}$	1			
10	1	I			
	a) single row functions				
	b) aggregate functions				
	d) date function				
17	is a standard mail protocol used to receive emails from a remote server	1			
	to a local email client.				
18	Pawan wants to transfer files and photos from laptop to his mobile. He uses	1			
	Bluetooth Technology to connect two devices. Which type of network will be formed in this case.				
	a. PAN b. LAN				
	c. MAN d. WAN				
19	Fill in the blank:	1			
	In case ofswitching, message is send in stored and forward manner from sender to receiver.				
	Q20 and 21 are ASSERTION AND REASONING based questions. Mark the correct choice as				
	(a) Both A and R are true and R is the correct explanation for A				
	(b) Both A and R are true and R is not the correct explanation for A				
	(d) A is false but R is True				
20	Assertion (A): The default argument values in Python functions can be mutable	1			
	types like lists and dictionaries.				
	Reason (R): Mutable default arguments retain their state across function calls, which can lead to unexpected behaviour				
21	Assertion (A): The HAVING clause in MySQL is used to filter records after the	1			
	GROUP BY operation. Reason (R): The WHERE clause filters records before arouning, while HAV/ING.				
	allows for conditions on aggregated data.				
	<u>SECTION</u> R				
22	ש Write difference between mutable and immutable property. Explain it with	2			
	its example.				

23	Predict the output of the Python	2
	I = (9,18,27,36,45,54)	
	$\begin{bmatrix} L = IISI(I) \\ I = I \end{bmatrix}$	
	for i in L	
	$if_{1}i_{6}=0$	
	L1.append(i)	
	T1 = tuple(L1)	
	print(T1)	
24	Write the Python statement for each of the following tasks using	2
	(i) To insert an element 400 at the fourth position in the list 1	
	(i) To check whether a string named message ends with a full stop/	
	period or not.	
	OR	
	A list named employeesalary stores salary of employees. Write the Python	
	command to import the required module and (using built-in function) to display	
	the most common salary value from the given list.	
25	What possible outputs are expected to be displayed on the screen at the time of	2
	execution of the program from the following code?	
	Import random	
	$e_{random randint(0, 4)}$	
	c=random random (0,4) for i in range (0, c):	
	print(temp[i] "#")	
	a) 10#20# b) 10#20#30#40#50#	
	c) 10#20#30# d) 50#60#	
26	Explain the following with help of example.	2
	1. Primary Key	
	2. Candidate key	
27	Ms. Rajni has just created a table named "Customer" containing columns	2
	Cname, Department and Salary.	
	After creating the table, she realized that she has forgotten to add a	
	primary key column in the table. Help her in writing an SQL command to	
	add a primary key column Custid of integer type to the table Customer.	
	Thereafter, write the command to insert the following record in the	
	table: Custid- 555	
	Chame- Nandini Department: Management	
	Solony 45600	
	Manish is working in a database named CCA in which he has created a table	
	named "DANCE" containing columns danceID, Dancename,	
	no_of_participants, and category.	
	After creating the table, he realized that the attribute, category has to be	
	deleted from the table and a new attribute TypeCCA of data type string has	
	to be added. This attribute TypeCCA cannot be left blank. Help Manish to	
	write commands to complete both the tasks.	
28	(i) Expand the following terms:	1+1=2
	(ii) Give the difference between XML and HTML	
	OR	
	(i) Define the term baud with respect to networks.	
	(ii) How is http different from https?	

	SECTION C					
29	Write a user – defined function countH() in Python that displays the number of lines starting with 'H' in the file 'Para.txt". Example , if the file contains: Whose woods these are I think I know. His house is in the village though; He will not see me stopping here To watch his woods fill up with snow. Output: The line count should be 2. OR Write a function countmy() in Python to read the text file "DATA.TXT" and count the number of times "my" occurs in the file. For example , if the file "DATA.TXT" contains – "This is my website. I have displayed my preference in the CHOICE section." The countmy() function should display the output as:				3	
30	 Aalam has created a list, L containing marks of 10 students. Write a program, with separate user defined function to perform the following operation: 3 PUSH()- Traverse the content of the List, L and push all the odd marks into the stack,S. POP()- Pop and display the content of the stack. Example: If the content of the list is as follows: L=[87, 98, 65, 21, 54, 78, 59, 64, 32, 49] Then the output of the code should be: 49 59 21 65 87 				3	
31						3
	Consider the	ne table ACTIVIT	Y given below:	-		
	ACODE	ACTIVITYNA ME	PARTICIP ANTS NUM	PRIZEMONEY	SCHEDULED TE	
	1001	Relay Name	16	10000	2004-01-23	
	1002	High Jump	10	12000	2003-12-12	
	1003	Shot Put	12	8000	2004-02-14	
	1005	Long Jump	12	9000	2004-01-01	
	1008	Discuss Throw	10	15000	2004-03-19	
	 Based on the given table, write SQL queries for the following: (i) Display the details of all activities in which prize money is more than 9000 (including 9000) (ii) Increase the prize money by 5% of those activities whose schedule date is after 1st of March 2023. (iii) Delete the record of activity where participants are less than 12. 					
			SECTION D			
32	You have le	earnt how to use r	math module in (Class XI Write a c	ode where you	4
	use the wr	ong number of ar	guments for a m	ethod (sav sort()	or pow()). Use	-
	the excepti	on handling proce	ess to catch the	ValueError excep	tion.	
33	Write a pyt	hon program to c	reate a csv file d	vd.csv and write	10 records in it	4
	Dvdid, dvd	name, qty, price.	Display those d	vd details whose	dvd price is	
	more than	25.				

34	Consider t	the following tabl	es and answei	the questions	a and b:	1*4=4
	Table: Garment					
	GCode	GNam e	Rate	Qty	CCode	
	G101	Saree	1250	100	<u> </u>	
	G102	Lehang a	2000	100	C02	
	G102	Plazzo	750	105		
	G103	Suit	2000	250		
	G104	Patiala	1850	105	C01	
	Table: Cl	oth	1000	100	001	
	CCode	CName				
	C01	Polvester				
	C02	Cotton				
	C03	Silk				
	C04	C04 Cotton- Polyester				
	Write SQL	queries for the f	following:			
	1.	Display uniqu	of quantities for	r each CCODI	F whose numbers of	
	11.	records are r	nore than 1.			
	iii.	Display GNA	ME, CNAME,	RATE whose o	quantity is more than	
		100.				
	iv.	Display avera	age rate of gar	ment whose ra	ate ranges from 1000	
25	Kichonwor	to 2000 (both	values includ	ed) to incort the f	allowing record in the	4
30	table name	d Flight in MYSC) database K	1.0 insert the 0.7	ollowing record in the	4
	• F	Fino (Flight numb	er)-varchar	v .		
	• 5	Source (source)-	varchar			
	• [Destination (Dest	ination)-varcha	ar		
	• F	are (fare)-intege	r			
	Note the fo	llowing to establi	sh connectivity	v hetween Pyth	on and MySOL	
		r name-root	Sheening	betweenin ya	ion and myoge.	
	Pase	sword $- K V S @ 1'$	23			
		t-localbost	20			
		upp of fields Elec	Source Dectin	otion and Ear	a has to be accepted	
	from the	e user. Help Kish	an to write the	program in Py	thon.	
	Cumon hos	areated a table	OR named Came		ahaaa Charta	
	Sumannas		integer		abase Spons.	
	•	GID (Game ID)-				
	•	Ghame(Game r	iame)-varchar		into mon	
	•	Note the followir	nts (number of ng to establish	connectivity be	etween Python and	
		MySQL:	0	,	,	
	•	Username: root				
	 Password: KV/S@123 					
	•	Host: localhost				
	Suman, no	w wants to displa	av the records	of students wh	ose number of	
	participants	s are more than	10, Help Suma	in to write the	program in Python.	
			SECTION-	E	· • •	
36	Write a pr	ogram in Python	that defines ar	nd calls the foll	lowing functions:	5
	Insert() -	To accept details	of clock from	the user and s	tores it in a csv file	
	'watch.csv'. Each record of clock contains following fields – ClockID,					

37	 ClockName, YearofManf, Price. Function takes details of all clocks and stores them in file in one go. Delete() – To accept a ClockID and removes the record with given ClockID from the file 'watch.csv'. If ClockID not found then it should show a relevant message. Before removing the record it should print the record getting removed. Superior Education Society is an educational Organization. It is planning to setup its Campus at Nagpur with its head office at Mumbai. The Nagpur Campus has 4 main buildings – ADMIN, COMMERCE, ARTS and SCIENCE. You as a network expert have to suggest the best network related solutions for their problems raised in a to e, keeping in mind the distances between the buildings and other given parameters: 			
	MUMBAI	NAGPUR CAMPUS		
	Head Office	COMMERCE ADMIN ARTS SCIENCE		
	Science Shortest distances between various buildings: ADMIN to COMMERCE - 55 m ADMIN to SCIENCE - 50 m COMERCE to ARTS - 55 m COMMERCE to SCIENCE - 50 ARTS to SCIENCE - 45 m MUMBAI Head Office to NAGPUR Campus – 850 KM Number of Computers installed at various buildings are as follows: ADMIN - 110 COMMERCE - 75 ARTS - 40 SCIENCE - 12 MUMBAI Head Office - 20 a. Suggest the most appropriate location of the server inside the Nagpur Campus to get the best connectivity for maximum number of computers. Justify your answer. b. Suggest and draw the cable layout to efficiently connect various buildings within the Nagpur campus for connecting the computers. c. Which of the following will you suggest to establish the online face-to-face communication between the people in the ADMIN office of Nagpur Campus and Mumbai Head office? i. Cable TV ii. Video Conferencing iv. Text Chat d. Suggest the placement of following devices with appropriate reasons: i. Switch/Hub ii. Repeater e. Suggest the device/software to be installed in Nagpur Campus to take care of data security and unauthorized access.			