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COMPUTER SC.

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SAMPLE PAPERS

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**PYTHON MCQs** 

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## SAMPLE PAPER - 5 CLASS:XII

**SUBJECT: COMPUTER SCIENCE (83)** 

Time Allowed: 03 Hours **General Instructions** 

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 MCO, text of the correct answer should also be written

9.	In case of MCQ, text of the correct	answer should also be writ	iten.				
	SECTI	ON-A (21*1=21 Marks)					
Q.No		Question		Marks			
1.	State True or False  "continue keyword skips remaining states"	ng part of an iteration in a lo	pop"	1			
2.	Select the correct output of the co >>> St="Computer" >>> print(St[4:]) (a) "Comp" (b) "pm		(d) "mput"	1			
3.	print(True or not True and False)		( ) .	1			
	Choose one option from the follow executing the above python expre	ession.	-				
	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 c	ontents of both dictionaries	?				
	(a) dict_stud + dict_mark	(b) dict_stud.add(di	ct_mark)				
	(c) dict_stud.merge(dict_mark)	(d) dict_stud.update	e(dict_mark)				
5.	Consider a declaration L=(1,'Python','3.14')						
	Which of the following represents t	he data type of L?					
	(a) list (b) tupl	( )	(d) string				
6.	Given a tuple tupl=(10,20,30,40,50,60,70,80,90) 1						
	What will be the output of print (tup (a) (40,50,60,70,80) (b) (40,	2,	(d) (40,60)				
7.	When a Python function does not I			1			
	(a) int (b) floa	(c) None	(d)Give Error				
8.	What will the following expression	\ /	. ,	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	
	print(S) # Statement 2	
	S="Thank you" #Statement 3 S[0]= '@' #Statement 4	
	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))	
11.	Which Python approach is used for object serialization in handling of Binary File?	1
1.5	(a) Pickling (b) Un-pickling (c) Merging (d) None of these	<u> </u>
12.	In the given program, identify which are local and global variables?	1
	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?	1
	(a)total() (b)add() (c) sum() (d) All of these	
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.	

` '	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 lo acca to change the value of a global variable.	
21.	Assertion (A): COUNT(*) function count the number of rows in a relation.	1
21.	Reasoning (R): DISTINCT ignores the duplicate values.	
	Treasering (Tr). Bie inver igneree the aupheate values.	
	<b>SECTION-B (7 * 2= 14 Marks)</b>	
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 <sup>th</sup> 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:	
	<ul><li>i) str="PYTHON@LANGUAGE"</li><li>(A) To print the above string from index 2 onwards.</li></ul>	
	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.	Find possible o/p (s) at the time of execution of the program from the following code?	2
25.	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# (iii) 50#60#70# (iv) 40#50#70#	
26.	Differentiate between COUNT(*) and COUNT(COLUMN_NAME) with example.	2
27.	(i)	2
21.	A) What constraint should be applied on a table's column to provide it the	
	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.	
	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.	
	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.	
		•

		T
28.	A) Write the full forms of the URL and VoIP and their utility?  OR	2
	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,	3
	Output will be: No. of Lines with E: 1 No. of Lines with T: 1	
	B) Write a method/function show_todo():in python to read contents from a text file abc.txt 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.  AFTER ALL EXPERIENCE COMES FROM HARDWORK."	
	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 <b>push(stack, data)</b> 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 <b>pop(stack)</b> that removes the top element of the stack on its each call.  Also write the function calls.	3
	Write a function in Python push(EventDetails) where EventDetails is a dictionary containing the number 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,	

	Marriage								
	Graduation Party								
	The output should be: The count of elements in the stack is 2								
31.	Mohan is a senior clerk in a MNC. He creates a table salary with a set of records to								
	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								
	1		L		L <b></b>	L	++   7000		
	E02	an Ahuja	Manager   Junior Clerk   Public Expert   Director	20000	2000	2500	2000   2500		
	E04 Gov	ind Mishra	Director	90000	40000	11500	900		
	++	ta Jonar 	Production Manager +		33000 	+	850   ++		
		e table given	above write the SQL (	Queries:		C			
	A) <b>(i)</b>		/ the Emp_Name and ( asic+da+hra+nps)	Gross_sa	alary of e	ach emp	oloyee.		
	(ii)		se the DA by 3% of res	pective t	oasic sal	ary of all			
	(iii)	employees To Delete	the Attribute emp_des	ig from tl	ne table.				
	OR								
	B)	To display	the total number of en	nnlovees	in Empl	ovee tah	مام		
	<ul><li>(i) To display the total number of employees in Employee table.</li><li>(ii) To display the employees records in descending order of</li></ul>								
	basic_salary respectively.  (iii) To display the total hra of employees in Employee table.								
	SECTION-D (4*4= 16 Marks)								
32	A)							1+3=4	
	i) When is IndexError Exception raised in Python?								
			handle IndexError? T						
			ange is not allowed" in rror occured" in case c				ριιστι,		
	B)		OR						
	i) When is ZeroDivisionError Exception raised in Python?								
	ii) Write a funct	ion division(	) that accepts two arg	uments.	The fund	ction sho	uld be		
	ii) Write a function division() that accepts two arguments. The function should be able to catch an exception such as ZeroDivisionError Exception, and the message "Some Error accurad" in accept any other Exception.								
33	"Some Error occured" in case of any other Exception.  3 Aman has recently been given a task on CAPITAL.CSV which contains Country and								
	Capital as data for records insertion.								
	For Example: "INDIA", "NEW DELHI"								
	"CHINA", "BEIJING" Write python code for these two user defined functions:								
	(i) AddNewRecord(): insertion of new records in file.								
	` '	•	to display all the record						
	l .							<u> </u>	

CODE				SCHOOL				
	TEACHERN		SUBJECT	DOJ	PERIO	ODS	EXPERIENCE	
1001	RAVI SHAN	IKAR	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	RY 19/10/1999	27		5	
1215	UMESH		PHYSICS	11/05/1998	22		16	
			TABLE:	ADMIN				
		CODE	GENDER	DESIGNATION	1	]		
		1001	MALE	VICE PRINCIP	AL	1		
		1009	FEMALE	COORDINATO	R	1		
		1203	FEMALE	COORDINATO	R	1		
		1045	MALE	HOD		1		
		1123	MALE	SENIOR TEAC	HER	1		
		1167	MALE	SENIOR TEAC	HER	1		
		1215	MALE	HOD		1		
Write S	QL queries fo	or the foll	owing:			•		
iv) (A) Disp	play the total	number	of different s	be "COORDINA ubjects in school <b>OR</b> and Females se	ol relati		h gender in	
Aarya h		integer e – string ger iteger	sh connectiv oot er	n MySQL: rity between Pyt	thon an	nd MY	'SQL:	
Aarya w	<ul> <li>Passy</li> <li>Host</li> <li>The E</li> <li>The d</li> <li>from t</li> </ul>	- localhos Emp table letails (Er the user. ay All Re	exists in a langles exists in a langles exists expended to the exist exists and exists exist exists exist exist exists and exists exist exists exist exists exist exists and exist exists exist exists exist exists exists exists exists exists exists exists exists exists	MYSQL databas Name, Age and op relation whos	Salary	) are	to be accepted	
Aarya w	<ul><li>Passy</li><li>Host -</li><li>The E</li><li>The d</li><li>from t</li></ul>	localhos Imp table letails (Er the user. ay All Re program	exists in a lang No, Emplocords of Emnon python	Name, Age and	Salary se age i	) are	to be accepted	

Hitech Info Limited wants to set up their computer network in Bangalore 5

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

OR

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

\*\_\_\_\_\*