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COMPUTER SC. **INFORMATICS PRAC.**

SAMPLE PAPERS

PYTHON MCQs

SAMPLE PAPER – 1 SUBJECT: COMPUTER SCIENCE

SuperNova-LearnPython, a YouTube channel dedicated to helping students to learn Python and computer science concepts.

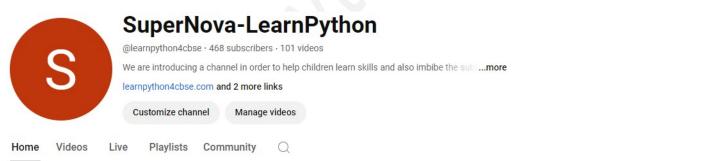
The channel covers various topics related to computer science, including **Python** programming, data file handling, computer networking, SQL and many more.

If you're looking for video descriptions, notes, assignments, and previous years' question papers related to Python and computer science for class 11 and 12, I recommend checking out the SuperNova-LearnPython channel on YouTube.

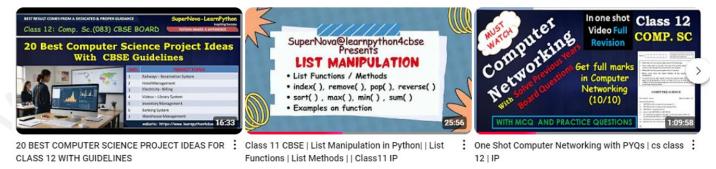
You can find the channel here¹.

Happy learning! .

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SAMP	LE PAPER –	1	
		Code: Learnpyt	hon4cbse-1/5(25CBSE01)
COMPUTER SC	CIENCE 12TH (CO	DDE 083)	
General Instructions:			
		-	
Time: 3 Hrs. 1. This question paper contains 37 questior	15.	r	1ax. Marks: 70
 All questions are compulsory. However, 		ve been provided i	n some questions.
Attempt only one of the choices in such)
3. The paper is divided into 5 Sections- A, I	B, C, D and E.		
4. Section A consists of 21 questions (1 to 2	21). Each question	carries 1 Mark.	
5. Section B consists of 7 questions (22 to 2	28). Each question	carries 2 Marks.	
6. Section C consists of 3 questions (29 to 3	31). Each question	carries 3 Marks.	
7. Section D consists of 4 questions (32 to	35). Each question	carries 4 Marks.	
8. Section E consists of 2 questions (36 to 3	37). Each question o	carries 5 Marks.	
9. All programming questions are to be ans		/	
10. In case of MCQ, text of the correct answ	er should also be w	ritten.	
SEC	TION A	[21x]	L= 21]
1 State True or False:		-	- 1
The Python interpreter handles logical	errors during cod	e execution.	
2 Identify the output of the following coo	-		1
x="AnnualMeetattheCampus"			
x=x.split('a')			
y=x[0]+"."+x[1]+"."+x[2]+x[3]			
print(y)			
(A) Annu.l Meet .t the Cmpus	(B) nnu.l N	leet .t the Cmpu	S
(C) Error		Meet .t the Cam	
3 Which of the following expressions eva			 1
(A) not(False) and True			-

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	(B) True and False			
	(C) not(False or True)			
	(D) True and not(True)			
4	What is the output of the expression?			1
	Select the correct output of the code :			
	S= "SUPER NOVA @ 2025"			
	A=S.partition (" ")			
	print (A)			
	(A) ('SUPER NOVA ','@','2025')			
	(B) ['SUPER','NOVA',' @ ,'2025']'			
	(C) ('SUPER', 'NOVA @ 2025')			
	(D) ('SUPER',' ' , 'NOVA @ 2025')			
5	What will be the output of the following co	de snippet?		1
	message= "Cbse Examination 2025"			
	print(message[-3::-3])			
6	What will be the output of the following co	de?		1
	tup1 = (1,2,[1,2],3)			
	tup1[2][1]=3.14			
	print(tup1)			
	(A) (1,2,[3.14,2],3)	(B) (1,2,[1,3		
	(C) (1,2,[1,2],3.14)	(D) Error Me	essage	
7	If Rec_dict is a dictionary as defined below	, then which of	f the following s	tatements will 1
	raise an exception?			
	Rec_dict = {'Hindi': 100, 'IP': 200, 'Eng': 3	300}		
	(A) Rec_dict.get('IP')			
	(B) print(Rec_dict['Hindi', 'Eng'])			
	(C) Rec_dict['Hindi']=200			
	(D) print(str(Rec_dict))			

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8	What does the Lst.extends(x) method do	?	1
	(A) Extend method helps you to insert the	e list of element from the starti	ng of the list
	(B) Extend method helps you to insert the	e list of element at the end of t	he list
	(C) Extend methods helps you to insert	ne list of element anywhere we	want
	(D) Extend method helps you to insert the	e element from the starting of	the list
9	Suppose a tuple T is declared as T = (10 incorrect?	12, 43, 39), which of the follow	wing is 1
	(A) print(T[1]) (I) T[2] = -29	
	(C) print(max(T)) (I) print(len(T))	
10	Ms. Sejal is working on the sports.dat fil	but she is confused about how	to read data 1
	from the binary file. Suggest a suitable l	ne for her to fulfill her wish.	
	import pickle		
	def sports_read():		
	<pre>f1 = open("sports.dat","rb")</pre>		
	print(data)		
	f1.close()		
	sports_read()		
	(A) data = f1.load(f)	(B) d=f.open(f)	
	(C) data = $f1.read(f)$	(D) data = $f1.dump(f)$	
11	State whether the following statement is	True or False:	1
	Except block is used to catch and handle	the exception(s) that are encou	intered in the
	try clause.		
12	What will be the output of the following	ode?	1
	x = 3		
	def myfunc():		
	global x		
	x+=2		
	print(x, end=' ')		
	<pre>print(x, end=' ')</pre>		
	BY: AMJAD KHAN		Page 4 of 14

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	myfunc()	
	print(x, end='')	
10	(A) 3 3 3 (B) 3 4 5 (C) 3 3 5 (D) 3 5 5	
13	Sonia wants to see all the databases are available in her MySQL software. Which command is useful for her?	T
14	What will be the output of the following MySQL statement?	1
	SELECT * FROM employee	-
	WHERE Lname LIKE 'F%' OR Lname LIKE '%T';	
	(A) All employees whose last name should started with 'T' and end with 'F'	
	(B) Names of all employees whose last name should started with 'T' and end with 'F'	
	(C) All employees whose last name should started with 'F' and end with 'T'	
	(D) Names of all employees whose last name should started with `F' and end with `T'	
15	Which among the following are the correct representation of "float(4,2)"?	1
	(A) 24.33 (B) 124.4	
	(C) 12.123 (D) Both (A) and (B)	
16	Which of the following set of functions is a valid set of aggregated functions in MySQL?	1
	(A) AVG(),ROUND(),COUNT() (B) MIN(),UPPER(),AVG()	
	(C) COUNT(),MAX(),SUM() (D) DATE(),COUNT(),LTRIM()	
17	Which of the following protocols allows use of HTML on the World Wide Web	1
	(A) HTTP (B) PPP	
	(C) FTP (D) POP	
18	Which of the following wireless transmission medium is best suited for MAN ?	1
	(A) Microwave (B) Radio Link	
	(C) Infrared (D) Bluetooth	
19	In switching, before a communication starts, a dedicated path is identifed between	1
	the sender and the receiver. Q20 and Q21 are Assertion (A) and Reason(R) 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	
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	(C) A	is True but R i	s False			
	(D) A	is False but R	is True			
20	Asse	rtion (A): Pytho	n allows function	n arguments to have	default values; if th	e function 1
	is cal	led without the	argument, the a	argument gets its def	ault value.	
	Reas	on (R): During	a function call, t	he argument list first	contains default are	gument(s)
	follov	ved by position	al argument(s).			
21	Δςςρ	tion (A): Both	DELETE and DRO	OP TABLE carries out	the same thing – de	eletion in 1
	table				are sume any de	
			I FTF command (deletes the rows and	DROP TABLE delete	s the whole
	table					
		-	SE	CTION B	[7x2= 14	Marks]
22	How	is a l ist differer	nt from Tuple ob			2
			-	immutable object fro	om the following:	-
		-	A':1,'B':2}, `XYZ'		sin the following.	
23	-		of each of the fol			2
		-	s (II) Memebersh	-		
24		1='superNova'				2
		•	n functions only)			
	(I)	A) To change	the first charact	er of the string str1 i	n capital letter.	
				OR		
		B) To replace	all occurrence of	f letter `e' in the strin	g str1 with `*'.	
	(II)	A) To display	the starting inde	ex for the substring `N	lova'.	
				OR		
		B) To change	the case of the g	given string str1.		
25	Ident	ify the correct	output(s) of the	following code. Also	write the minimum a	and the 2
	maxi	mum possible v	alues of the vari	iable final.		
	impo	rt random				
	elem	ents=[180,90,7	7,65,33,12,54,4	,219]		
	beg=	random.randin	t(1,4)			
		JAD KHAN				Page 6 of 14
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		CHEINE CEASSES		LK 30.						100
	fina	l=random.rand	lint(beg,5)							
	for	z in range(beg,	final+1):							
		print(eleme	nts[z],"@")							
	(a)	90 @			(b)	90 @				
		77 @				77 @				
		65 @				54 @				
		33 @				4 @				
	(c)	180 @			(d)	90 @				
		12 @				4 @				
26	Riya	a was asked to	accept a lis	st of ever	n num	bers, but she	did not put th	e relev	vant	
	con	dition while acc	cepting the	list of nu	umber	s. She wrote	a user defined	functi	on odd to	
	eve	n (L) that acce	pts the list	L as an a	argum	ent and conv	erts all the odd	l numl	bers into	
	eve	n by multiplyin	g them by 2	2.						
	def	oddtoeven (L)								
		for i in range	e (size(L)):							
		if (L[i]%2! == 0)						
			L[i]= L[1]	** 2						
		return L								
	resu	lt = oddtoeven([1, 2, 3, 4])							
	prin	t("Odd to Even:	" result)							
	The	ere are some er	rors in the	code . Re	ewrite	the correct c	ode.			
27	(I)									
	A) \	What constraint	should be	applied (on a t	able column s	o that default	value	is	
	ass	igning in that c	olumn, if th	e value	is not	provided or g	jiven.			
					C	OR				
	B) \	What constraint	t should be	applied	on a t	able column s	o it ensures th	at all	values in a	a
	colu	umn satisfy cer	tain conditio	on?						
	(II)	A) Write an SC	QL comman	d to crea	ate a F	OREIGN KEY	constraint on t	the "P	ersonID"	
	colu	umn when the '	'Orders" an	d "Perso	n" tab	le is already o	created. The Co	olumn		
	"Do	rsonID" is prim	ony koy in Y	'Dorcon"	tabla					

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		OR							
	B) Write an SQL command to to remove a FOREIGN KEY constraint from a table, named								
	Order. PersonID is the foreign key of	of the table.							
28	A) List one advantage and one disa	dvantage of Bus topol	ogy.		2				
		OR							
	B) Expand the term FTP. What is th	e use of FTP?							
		ECTION C	[3x3= 9 Mai						
29	A) Write a function CountHisHer() i	-		xt file	3				
	"Story.txt" and counts the words Hi		ensitive).						
		OR	^C V	_					
	B) Write a Python program to find t	he longest word in file	e "status.txt". If con	tents of					
	status.txt are								
	Welcome to your one step solutions								
	various competitive and recruitmen		-						
	working tirelessly for over a decade			s study					
	resources because you deserve SU	LCESS AND NOTHING	LESS						
	Output should be Longest word : examinations								
30	A) You have a stack named Magazin	necStack that contains	records of Magazir	nes Each	3				
50	Magazine record is represented as a				5				
	publication_year.								
	Write the following user-defined fur	nctions in Python to pe	erform the specified	operations					
	on the stack MagazinesStack:			operatione					
	(I) push_Magazine(MagazinesStack	, new Magazine): Thi	s function takes the	stack					
	MagazinesStack and a new Magazir	, _ 0 ,							
	the new magazine record onto the	_	5						
	(II) pop_Magazine (MagazinesStack		the topmost Magaz	ine record					
	from the stack and returns it. If the								
	"Underflow".								
	(III) peep(MagazinesStack): This fu	inction displays the to	pmost element of tl	he stack					
	BY: AMJAD KHAN			Page 8 of 14					

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	without deleting it. If the stack is empty, the function should display 'None'.										
	OR										
	B) Write the definition of a use	er-defined function `pu	ush_odd(N)` which accepts a list of								
			tegers which are odd from the list								
	`N` into a Stack named `Odds										
			er from the stack and returns it. If								
	the stack is already empty, the										
			he stack without deleting them. If								
	the stack is empty, the functio	n should display 'None	e								
	For example:										
	If the integers input into the lis [10, 5, 8, 3, 12]	SU VALUES die.									
	Then the stack `OddsNumbers	should store									
	[5, 3]										
31	Predict the output of the follow	vina code:	3								
	D={1:"One", 2:"Two", 3:"Thre	-	/"}								
	L=[]										
	for K,V in D. items():										
	if V[0]=="T":										
	L.append(K)										
	print(L[::-1])										
		OR									
	Predict the output of the follow	ving code:									
	str1="Hello SuperNova"										
	cn=0										
	for i in str1:										
	cn=cn+1										
	<pre>new=str1[0:2]+str1[cn-2:cn]</pre>										
	print(new)	SECTION D	[4x4= 16 Marks]								

SECTION D

[4x4= 16 Marks]

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32 Consider the following tables STORE and answer the questions:

Table: STORE

ItemNo	Item	Scode	Qty	Rate	LastBuy
2005	Sharpener Classic	23	60	8	31-JUN-09
2003	Balls	22	50	25	01-FEB-10
2002	Gel Pen Premium	21	150	12	24-FEB-10
2006	Gel Pen Classic	21	250	20	11-MAR-09
2001	Eraser Small	22	220	6	19-JAN-09
2004	Eraser Big	22	110	8	02-DEC-09
2009	Ball Pen 0.5	21	180	18	03-NOV-09

Note: The table contains many more records than shown here.

A) Write the following queries:

(I) To display the total Quantity for each Item, excluding Products with total Quantity less than 60.

(II) To display the Store table sorted by Rate in descending order.

(III) To display the distinct item names from the Store table.

(IV) Display the sum of Rate as total Rate of all the orders for which the quantity is null.

OR

B) Write the output

(I) SELECT * FROM STORE ORDER BY LastBuy;

(II) SELECT * FROM STORE WHERE Scode = 22 and Qty>=110;

(III) SELECT Scode, MIN(Rate) FROM STORE GROUP BY Scode;

(IV) SELECT Item, Qty FROM STORE WHERE Item LIKE '%Pen%';

33 Riya, a computer science teacher at a high school, is managing a database for tracking 4 students' programming projects. She has created a CSV file named "Projects.csv" with the following structure: [Proj_ID, Proj_Title, St_Name, Status] Where:

Proj_ID is the project ID (integer)

Proj_Title is the title of the programming project (string)

St_Name is the student name (string)

Status represents the project status, which can be 'Completed', 'In Progress', or 'Not

4

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Started'.

Riya wants to enhance her program by implementing the following user-defined functions:

acceptProject() - To accept a new project record from the user and add it to the "Projects.csv" file. The column headings should be added at the top of the CSV file. completedProjectsCount() - To count the number of projects that are marked as 'Completed'.

Assist Riya in completing these functions.

Saman has been entrusted with the management of Law University Database. He needs 4 to access some information from FACULTY and COURSES tables for a survey analysis.
 Help him extract the following information by writing the desired SQL queries as mentioned below.

Table: Author

AuthorID	AuthorName	BirthYear	Nationality
A001	J.K. Rowling	1965	British
A002	George R.R. Martin	1948	American
A003	Haruki Murakami	1949	Japanese
A004	Chimamanda Ngozi Adichie	1977	Nigerian
A005	Arundhati Roy	1961	Indian
A006	Ruskin Bond	1934	Indian

Table: Book

BookID	Title	AuthorID	Genre	Price(INR)
B001	Harry Potter and the	A001	Fantasy	351
	Philosopher's Stone			
B002	A Game of Thrones	A002	Fantasy	483
B003	Norwegian Wood	A003	Fiction	341
B004	Half of a Yellow Sun	A004	Historical Fiction	381
B005	The Wind-Up Bird Chronicle	A003	Magic Realism	418
B006	Americanah	A004	Contemporary Fiction	339
B007	The God of Small Things	A005	Fiction	302

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(I) Display the titles (II) Display the avera (III) Display the title Fantasy' and arrange	and prices of book age price of books es of books and ge e the results in de	s in each geni enres of book escending ord	Indian re. s that er.	authors. belong to either	
A table, named STUE Field Sadmno	DENT, in SCHOOL Type Int(11)	database, ha		ollowing structur	re: 4
	Inspiring Succe ONLINE CLASSES B008 The Blue U [I] Display the titles [II] Display the titles [IV] (A) Write a com [II] Display the titles [IV] (A) Write a com [II] Display the titles [IV] (A) Insplay the titles [II] Display the titles [II] Display the titles [II] Display the titles [IV] (A) Write a com [II] Display the titles [Inspiring Success SuperNor ONLINE CLASSES COMPUTER SC. B008 The Blue Umbrella I) Display the titles and prices of books II) Display the average price of books and gr Fantasy' and arrange the results in defectional (8,2). B) To display the Cartesian Product of A table, named STUDENT, in SCHOOL Field Type Sadmno Int(11)	Inspiring Success SuperNova-learnpythe N ONLINE CLASSES COMPUTER SC. INFORMATICS B008 The Blue Umbrella A006 I) Display the titles and prices of books written by II) Display the average price of books in each gene (III) Display the titles of books and genres of book Fantasy' and arrange the results in descending ord (IV) (A) Write a command to change the data type OR (B) To display the Cartesian Product of these two tak A table, named STUDENT, in SCHOOL database, ha Field Type Sadmno Int(11)	Inspiring Success SuperNova-learnpython N ONLINE CLASSES COMPUTER SC. INFORMATICS PRAC. B008 The Blue Umbrella A006 Child I) Display the titles and prices of books written by Indian II) Display the average price of books in each genre. (III) Display the titles of books and genres of books that Fantasy' and arrange the results in descending order. (IV) (A) Write a command to change the data type of the decimal (8,2). OR (B) To display the Cartesian Product of these two tables. A table, named STUDENT, in SCHOOL database, has the f Field Type Sadmno Int(11)	Inspiring Success SuperNova-learnpython Clases 9 to 12- Computer Sc. N ONLINE CLASSES COMPUTER SC. INFORMATICS PRAC. SAMPLE PAPERS B008 The Blue Umbrella A006 Children's Literature [1] Display the titles and prices of books written by Indian authors. [1] [1] Display the average price of books in each genre. [1] [11] Display the titles of books and genres of books that belong to either Fantasy' and arrange the results in descending order. [1V) (A) Write a command to change the data type of the column Price from (B) To display the Cartesian Product of these two tables. A table, named STUDENT, in SCHOOL database, has the following structure Field Type Sadmno Int(11)

Assume the following for Python-Database connectivity:

Float

Write the following Python function to perform the specified operation:

Int

Host: localhost, User: root, Password: SuperNova

SECTION E

[2x5= 10 Marks]

36 Shaan is a manager working in a company. He needs to manage the records of various5 employees. For this, he wants the following information of each employee to be stored:

InsertAndShow(): To input details of a student and store it in the table STUDENT. The

function should then retrieve and display all records from the STUDENT table where the

- Emp_ID - integer

Sperc

Sclass

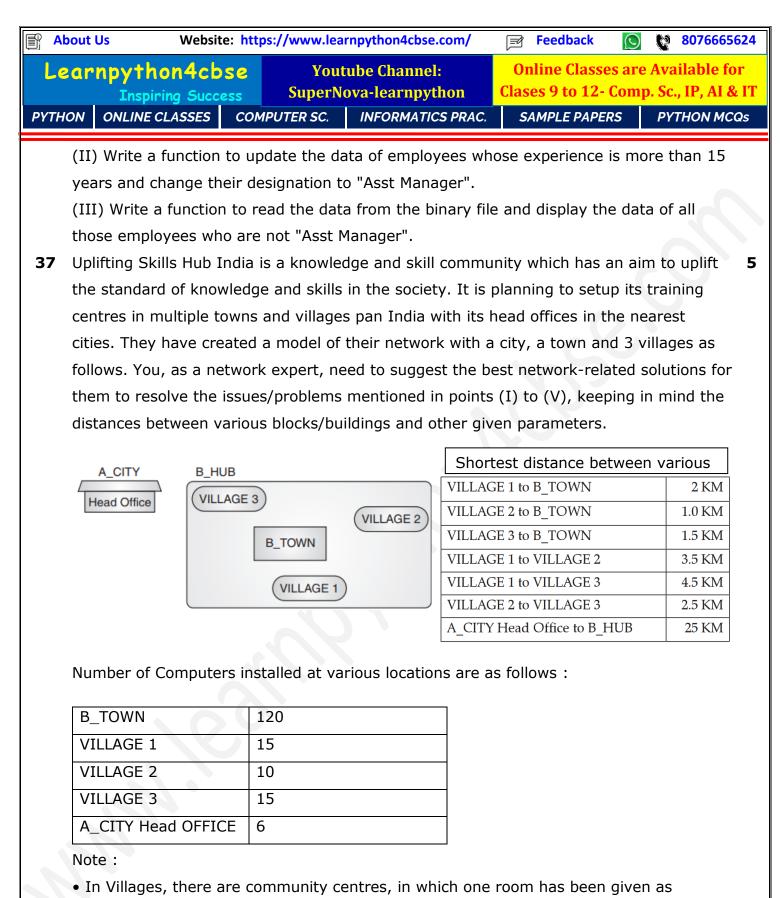
- Emp_Name - string

Sperc is greater than 85.

- Designation string
- Experience float

You, as a programmer of the company, have been assigned to do this job for Shaan.

(I) Write a function to input the data of an employee and append it in a binary file.



training centre to this organization to install computers.

• The organization has got financial support from the government and top IT companies.

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YTHON	Inspiring Succo		Nova-learnpython	Clases 9 to 12- Com	рутнон мсс
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	. 2		ive connectivity. Just		
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	-		within the B_HUB.		
. ,		device will you	suggest to connect a	all the computers wit	thin each
	tion of B_HUB ?			ah lina jahawa akima a	f F. w. e. de
. ,			nost helpful to condu	ct live interactions o	r Experts
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City.	which type of t		OR	e formeu: Justiry.	
(B) \	What would be vo	ur recommendati	on for enabling live visi	ual communication het	ween the
	-		at B_HUB from the follo		
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c) Te	elephony				
d) In	nstant Messaging				