2111000102040002

B.C.A. F.Y (Sem – II) Examination November -202 Programming Skills

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gramming Sk	ills	2 P.					
			P	30	S		
	(I)	Iax. mark	s: 70]	97			
				Student's	Signat	ure	

Q.1 Answer the following (Any Seven)

[Time: Three Hours]

14

- 1) What is global variable? How to use it in function if same name of variable exists in function as a local variable in C?
- 2) What is the output of following code in C?

```
void disp()
{
         printf("Hello")
}
void main()
{
         disp();
         main();
         getch()
}
```

- 3) What is the difference between actual parameter and formal parameter in C?
- 4) What is the use of union in C?
- 5) What is the output of the given below program in python?

```
if 3+5 == 7:
    print("Python")
else:
    print("Programming")
print("Language")
```

- 6) How to sort list element in python? Give example.
- 7) How to know the type of variable in Python? Give one example of it.
- 8) Define PVM. Explain significance of it.
- **9)** What is the use of *typedef* in C?

Q.2 [A] Answer the following questions. (Any Two)

10

1) What is nested structure? Explain with an example in C.

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	2)	What is the difference between call by value and call by reference? Give example				
	3)	in C. How to calculate address of 2-D array element? Explain row major with example				
	3)	in C.				
	[B] W	hat is Recursive function? Explain with example in C.	4			
		OR OR				
		refine structure. How to access structure members in C? Explain it with proper	400			
	exam	ple.	50,			
Q.3	[A] A	nswer the following question. (Any Two)	12			
	1)	How to create user define function in Python? Explain categories of function				
		arguments.				
	2)	Define an operator. Explain arithmetic, relational and membership operators with				
		an example.				
	3)	What is while loop in python? Explain break and continue in while loop with				
		proper example.				
	4)	Write a note on sets and its methods with example.				
	(FD1 33	71. 4	2			
		That is dynamic declaration of variable? How to assign values to multiple variables in	2			
	Pytho	OR STATE OF				
	(RID	ifferentiate between loc() and iloc() functions.	2			
		interentiate between loc() and noc() functions.	_			
Q.4	(A) A	nswer the following questions. (Any Two)	10			
30,	1)	Explain Python's String methods with example.				
	2)	How to create Dictionary in Python? Discuss various methods with example.				
	3)	What is tuple in Python? Explain various methods with example.				
	4)	Explain conditional statement in Python.				
ED.						
	[B] E	[B] Explain importance of Pandas dataframe and also discuss creation of dataframe using				
	list.					
	8	OR	_			
	[R] D	iscuss Numpy with its methods.	4			
0.5	FA TA		10			
Q.5		nswer the following questions. (Any Two) What is two costing in python? Explain available costing methods with examples	10			
	1) 2)	What is type casting in python? Explain available casting methods with examples. How to pass unknown number of parameters as argument in function? Explain				
	/ 4)	with example in python.				
ON.	3)	Explain numeric types in Python.				

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[B] Write a Python script to create a data frame using list in python. Include following items at runtime in list.

(sid,sname,sub1,sub2,sub3,sub4,sub5,sub6,total,per).

Calculate total and percentage and display result based on percentage.

OR

[B] Create user define function named rev_array() in C that accept an array as argument and display elements of array in reverse.