F.Y.CS Sem-I ATKT OCH-2018

Paper Code: 77301 / Programming with C

GOD FYCS

Q. P. Code: 33132

(2 1/2 Hours)

[Total Marks: 75

N.B. 1) All questions are compulsory.

- 2) Figures to the right indicate marks.
- 3) Draw suitable diagrams and illustrations wherever necessary.
- 4) Mixing of sub-questions is not allowed.

Q. 1 Attempt All the Questions

A) Choose the correct alternative

(5M)

- i) Which of the following special symbol allowed in a variable name?
 - a. * (asterisk)
 - b. | (pipeline)
 - c. (hyphen)
 - d. (underscore)
- ii) How many times "FYCS" is get printed?

```
#include<stdio.h>
int main()
{
    int x;
    for(x=-1; x<=10; x++)
    {
        if(x < 5)
            continue;
        else
            break;
        printf("FYCS");
    }
    return 0;
}</pre>
```

- a. infinite times
- b. 11 times
- c. 0 times
- d. 10 times
- iii) How can you combine the following two statements into one?

```
char *p;
p = (char*) malloc(100);

a. char p = *malloc(100);
b. char *p = (char) malloc(100);
c. char *p = (char*) malloc(100);
d. char *p = (char*) (malloc*)(100);
```

iv	Which of the following operations can be performed on the file "NOTES.TXT using the below code?	32 "
	FILE *fp; fp = fopen("NOTES.TXT", "r+"); a. Reading b. Writing c. Appending d. Read and Write	
V) If a variable is a pointer to a structure, then which of the following operator is used to access data members of the structure through the pointer variable? a b. &	d de
	c. * d>	
B)		(5M)
i)	{ argument, 2, continue, or, 3, goto, scanf, function, printf, and }	
ii)	and to display the output on the screen	
iii)	- asca to skip a pair of the statements in a lean	
iv)	- Transition of the original and the operands are true	
v)	parameters.	
~		
C)	Explain the following terms in one or two lines	(5M)
i) ii)	What is mean by reserved words?	(- 1 - 1)
iii)	In the function call streat(s2, s1); final result gets stored into which string?	
iv)	That are neader thes and now are they useful in C programming	
v)	The variables declared in a structure definition are called as?	
	When is the "void" keyword used in a function?	
2.2	Attempt the following: (Any THREE)	
Α	Differentiate between Interpreter and Compiler.	(15M)
В	Explain the loop structures available in C languages. Explain any one in detail with example.	
C	Explain in brief hierarchy of data type variables in C programming.	
	what is the difference between = and == symbols in C programming? Explain with suitable example.	
Ε	Briefly explain with example working of continue statement in Cons	
F	Write a short note on conditional operator.	

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Q.3 Attempt the following: (Any THREE)

(15M)

- A Define local variable and global variable. Explain in brief.
- B Differentiate between array types of C with list and tuple types of Python.
- C Explain the various ways of initializing one-dimensional integer and character arrays.
- D What is putchar? Explain with appropriate example.
- E Explain in detail function prototype.
- F Briefly explain working of strcmp function.

Q.4 Attempt the following: (Any THREE)

(15M)

- A Write a short note on chain of pointers.
- B Write a C program for defining pointer variable to the structure. Also initialized structure elements pointed by pointer and print the same.
- C State and explain rules for initializing structure.
- D What does sizeof operator does? Explain with suitable example.
- E Write a C program using pointers to compute the sum of all elements stored in an array.
- F What is Unions in C programming? How it is different from Structure.

Q.5 Attempt the following: (Any THREE)

(15M)

- A Explain in brief structure of C program.
- B Explain working of increment and decrement operator in C programming? Explain with example.
- C Explain the nesting of function with appropriate example.
- D State and explain example of a function with argument and return values.
- E Write a short note on fseek function.

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