## University of Mumbai

Curriculum Scheme: Rev 2016

## All Programs

Examination: FE Semester II \_FH2022

Course code: FEC205
Time: 2 Hr 30 Mins

Course Name: Structured Programming Approach

Max. Marks: 80

Choose the correct option for following questions. All the Questions are compulsory and		
Q1.	county 2 marks each	
1.	Which among the following is a Conditional Operator in C?	
Option A:	?:	
Option B:	:?	
Option C:	<=	
Option D:	>=	
Option D.		
2.	Which storage class is called as default storage class?	
Option A:	auto	
Option B:	register	
Option C:	static	
Option D:	extern	
Option D.		
3.	Which among the following is an exit controlled loop?	
Option A:	for	
Option B:	while	
Option C:	dowhile	
Option D:	ifelse	
Ориол		
4.	In the following initialization what is value of A[5]?	
	int A[10] = {9, 8, 7, 6, 5, 4, 3, 2, 1, 0};	
Option A:	5	
Option B:	4	
Option C:	3	
Option D:	2	
Ориги		
5.	Recursion is a process in which a function calls	
Option A:		
Option B:	another function	
Option C:		
Option D:		
6.	Which data type is best for storing a number 65000 in a 32-bit system?	
Option A:		
Option B:		
Option C:		
Option D		
7	What is value of a in following expression?	
7.	int $a = 10 + 4.867$ ;	
	III. a 10 1.007,	
Option A	: 10	
1		

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Option B:
             14
 Option C:
             14.867
 Option D:
             14867
     8.
             What will be the out put of following Program when user hits 1 as input
             #include <stdio.h>
             void main()
               {
                 int ch;
                 printf("enter a value between 1 to 2:");
                 scanf("%d", &ch);
                 switch (ch)
                 {
                   case 1:
                    printf("1\n");
                    printf("hi");
                    break;
                    printf("hi");
                  default:
                    printf("2\n");
Option A:
            hi
Option B:
            1
            hi
Option C:
Option D:
            hi
    9.
            A Pointer is
Option A:
            A Keyword Used to create Variables
Option B:
            A variable that store address of an Instruction
Option C:
            A variable that stores address of other Variable
Option D:
            Imaginary Value
            What will be the output of the following program?
   10.
            int main()
            {
            int a,b,c,d,e,f,g,h,k;
            a=8, b=4, c=2, d=1, e=5, f=20;
            printf("%d\n",a+b-(c+d)*3%e+f/9);
            return 0;
Option A:
           10
Option B: 9
Option C:
           8
Option D:
           20
```

Q2	Solve any Two (10 Marks each)	
a)	Write an algorithm and a draw flowchart whether the entered number is an Armstrong or not.	
b)	Write a C-program to create array of structures in order to store details of almost 100 books. The	
	book details are book name, book price, book page number and book author name.	

		1
c)	Write a short Note with example on following  1. Primitive Data Types in C  2. Arithmetic and Logical Operator in C  3. Arrays in C  4. Pointers in C	

		(10 Marks each)		
Q3	Solve any Two			
a)	Write a program to find largest and smallest elements of an array	y.		
b)	What are strings and give any four string related functions with	sunable example.		
<u>c)</u>	Write a C program to display following pattern using nested loops.			
-/	1			
	2 1			
	3 2 1			
	4 3 2 1			
	1 4 3 2 1			

	(10 Marks each)
Q4	Solve any Two
a)	What is recursion? Write a program using recursion to find the factorial value of given integer
	number.
b)	Explain call by value and call by reference with suitable example.
c)	Write an algorithm to find the average of 10 numbers, also draw a flowchart to find average of
	10 numbers.