

Structured Programming Approach

F.E. Sem.II

EVALUATION SYSTEM

	Time	Marks
Theory Exam	3 Hrs	80
Practical Exam	-	25
Oral Exam	-	-
Term work	-	25
Internal Assessment	-	20

SYLLABUS

Module 1 Problem definition.

Module 2 Algorithms

2.1 Developing Algorithms

2.2 Efficiency of Algorithms

Module 3 Expressing Algorithm Sequence.

3.1 Expressions in C; Arithmetic and Boolean expressions.

3.2 Use of Standard Functions.

3.3 Assignment statement.

3.4 Input and Output.

Module 4 Concept of scalar Data Types.

4.1 Scalar data types in C, scope and life time, type conversion.

Module 5 Expressing Algorithms Iteration.

5.1 Ordering a Solution in a loop.

Engineering Buddy

5.2 C Control Structures for Iteration.

Module 6 Expressing Algorithm Selection.

6.1 C Control Structures for Selection

Module 7 Decomposition of Solution.

7.1 Defining Functions in C.

7.2 Functions and Parameters

7.3 Introduction to recursive functions.

Module 8 Additional C data types.

8.1 Arrays single and multi-dimensional.

8.2 Strings

8.3 Structures

8.4 Files

8.5 Pointers

Mumbai University Question Paper Format:

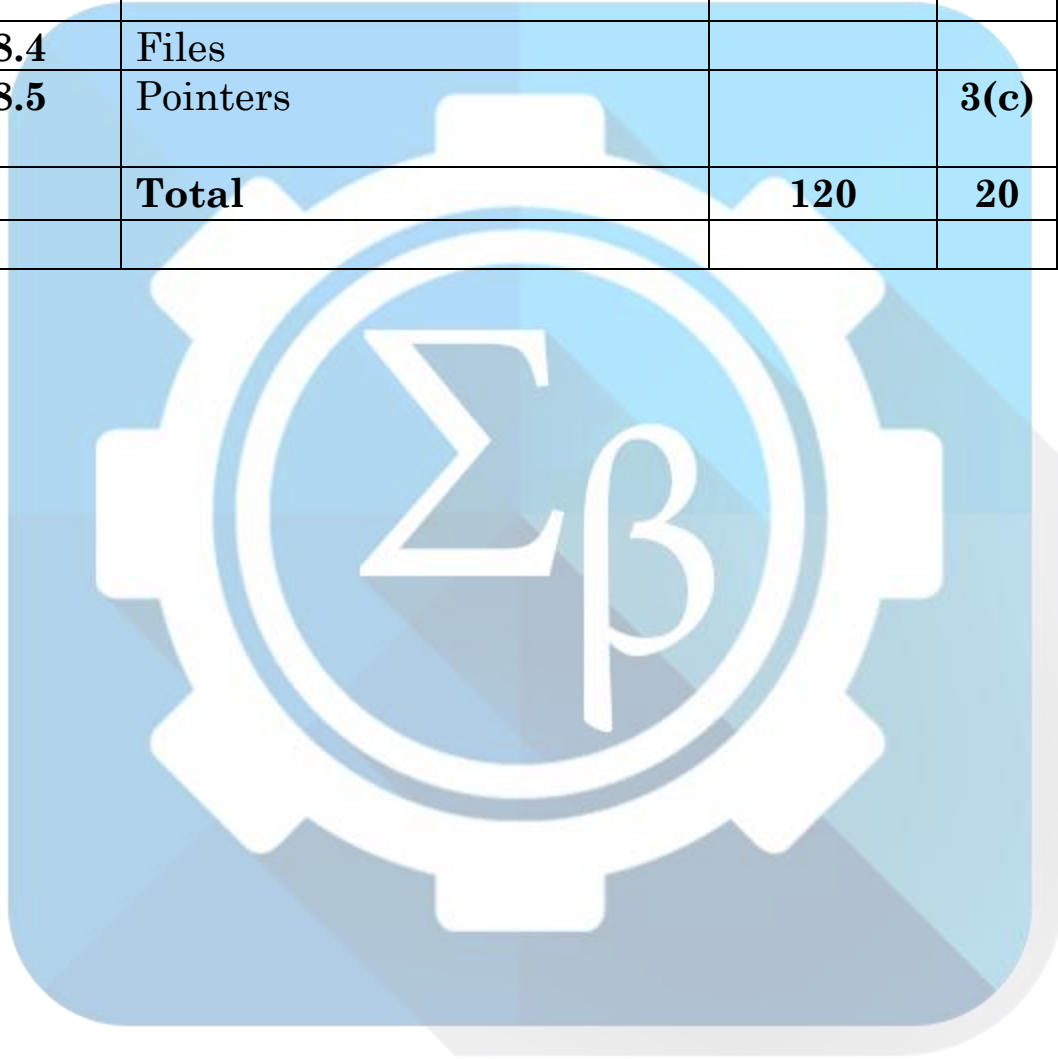
- 1) Question paper will comprise of 6 questions, each carrying 20 marks.
- 2) Total 4 questions need to be solved.
- 3) Q.1 will be compulsory, based on entire syllabus wherein sub questions of 2 to 3 marks will be asked.
- 4) Remaining question will be randomly selected from all the modules.
- 5) Weightage of marks should be proportional to number of hours assigned to each Module.

Engineering Buddy

Distribution of Marks

Topic No	Sub-Topic / Unit No	Sub-topic Unit Title	Weightage	Q.1	Q.2	Q.3
1	1.1	Problem Definition	4	4(c)		
2		Algorithms	12			
	2.1	Developing Algorithms				6(a)
	2.2	Efficiency of Algorithms				
3		Expressing Algorithms - Sequence	9			
	3.1	Expressions in C; Arithmetic and Boolean expressions				
	3.2	Use of Standard Functions		3(K)		
	3.3	Assignment Statements				
	3.4	Input and Outputs				
4		Concept of Scalar and Data Types	05			
	4.1	Scalar Data types in C, Scope and Lifetime, type conversion			5(C)	
5		Expressing Algorithms - Iteration	15			
	5.1	Ordering a Solution in loop				
	5.2	C-Control Structures for Iteration		3(C)		6(a)
6		Expressing Algorithms - Selection	12			
	6.1	C-Control Structures for selection				
7		Decomposition of Solution	23			
	7.1	Defining functions in C				
	7.2	Function and Parameters		4(C)	+	
	7.3	Introduction to recursive functions			5(a)	8(a)

8		Additional C Data Types	40			
	8.1	Arrays single and multi-dimensional.				
	8.2	Strings		3(a)		
	8.3	Structures			10(a)	
	8.4	Files				
	8.5	Pointers		3(c)		
		Total	120	20	20	20



Engineering Buddy