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
- 5.2 C-Control structures for Iteration

Module -6 Expressing Algorithms - 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.

Distribution of Marks

Topic No	Sub-Topic / Unit No	Sub-topic Unit Title	Weightage	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6
1	1.1	**Problem Definition**	4	4(c)					
2		**Algorithms**	12						
	2.1	Developing Algorithms				6(a)	6(a)		
	2.2	Efficiency of Algorithms							
3		**Expressing Algorithms -Sequence**	9						
	3.1	Expressions in C; Arithmetic and Boolean expressions						6(k)	
	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(a)		
6		**Expressing Algorithms -Selection**	12						
	6.1	C-Control Structures for selection						6(a)	6(c)
7		**Decomposition of Solution**	23						
	7.1	Defining functions in C							
	7.2	Function and Parameters		4(c)	5(a)				
	7.3	Introduction to recursive functions				8(a)			6(a)
8		**Additional C Data Types**	40						
	8.1	Arrays- Single and Multidimesional					8(a)	8(a)	
	8.2	Strings		3(a)					5(a)
	8.3	Structures			10(a)				
	8.4	Files							3(c)
	8.5	Pointers		3(c)					
		Total	**120**	**20**	**20**	**20**	**20**	**20**	**20**

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