School of Engineering and Technology

Question Bank

Course Title: Problem Solving Techniques using C

Course Code: 24BTPHY104 **Sem: I**

Module 1- Introduction To Programming Concepts

SL NO	QUESTIONS	MARKS	COs	BL
1.	Define software? Explain different types of software.	8	1	2
2	Define Algorithm. Write an algorithm to find the area and perimeter of a circle.	6	1	2
3	Write an algorithm to find the largest of 3 numbers.	4	1	3
4	Define flowchart. Explain with an example.	5	1	2
5	Draw the flowchart and write a C program to compute simple interest.	4	1	2
6	Define Token? Explain the different types of tokens available in C language.	6	1	2
7	Define identifier (variable)? What are the rules to construct identifier (variable)?	6	1	2
8	Classify the following as valid/invalid Identifiers. i) num2 ii) $num1 iii) +add iv) a_2 v) 199_space vi) _apple vii)#12.	4	1	3
9	Explain with example, the various constants available in „C“ language.	5	1	2
10	List all the operators used in C. Give examples.	8	1	2
11	Explain any five operators used in C language with examples.	10	1	2
12	Explain basic data types available in “C“? Write the significance of each data type.	8	1	2
13	Define type conversion? Explain two types of conversion with examples.	6	1	2
14	Define an expression? Evaluate the following expressions i) 100 % 20 < = 20 – 5 + 100 % 10 – 20 = = 5 > = 1 != 20 ii) a + = b * = C - = 5 where a=3 b=5 and c=8	4	1	3
15	Convert the following mathematical expression into C equivalent i) area= s(s-a)(s-b)(s-c) ii) x = -b + b2-4ac	4	1	3
16	Explain the following operators in C language i) Relational ii) Logical iii) Conditional	6	1	2
17	Write algorithm and the flow char to find largest among 3 numbers.	8	1	3