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Name: Student University Roll No.:	Printed Pages:1
First Sessional Examination, Odd Semester (AS: 2023-24) **School of Engineering** **B. Tech: CSE** **Year: II**	**Semester: III**
Course Title: Computer Concepts & Programming in C **Course Code: BCS3305**	**M.M.: 30** **Time: 1 hr**

Instructions if any: Read the question Carefully.

	SECTION 'A'	Course Objective	Marks
Q.N.1.	**Attempt all parts of the following:**		
a)	What is an algorithm? Define.	CO1	1
b)	What are the format specifiers of int, float, char and longint?	CO1	1
c)	Define flowchart.	CO1	1
d)	What is identifier? Give any example.	CO1	1
e)	Define 'keyword' in C language. Write any five keywords in C.	CO1	1

	SECTION 'B'	Course Objective	Marks
Q.N.2.	**Attempt any two parts of the following:**		
a)	Explain storage classes in detail.	CO1	7.5
b)	Solve the given number type conversions i. $(167.45)_8 = (?)_{10}$ ii. $(961.12)_{10} = (?)_{16}$ iii. $(2CB.AD)_{16} = (?)_2$ iv. $(1101011101101110.10100111)_2 = (?)_{16}$	CO1	7.5
c)	Write an algorithm and draw a flowchart for calculating simple intrest using the formula SI=(P*T*R/100), where, P denotes principal amount, T denotes time and R denotes rate of interest.	CO1	7.5
d)	Explain the procedure of systematic development of software.	CO1	7.5

	SECTION 'C'	Course Objective	Marks
Q.N.3.	**Attempt any one part of the following**		
a)	Explain various strategies of developing algorithms in detail.	CO1	10
b)	Explain the following: i. Assembler ii. Compiler iii. Interpreter iv. Linker v. Loader	CO1	10
c)	Write a program to print following pattern 1 12 123 1234 12345	CO2	10

Table 1: Mapping between COs and questions
(Number of COs may vary from course to course)

COs	Questions Numbers	Total Mari...
CO1	1a,1b,1c,1d,2a,2b,2c,2d,3a,3b	35
CO2	3c	10