

R.N.G.PATEL INSTITUTE OF TECHNOLOGY-RNGPIT
(An Autonomous College U/s UGC Act 1956)

B. Voc. SEMESTER-I, SEMESTER END EXAMINATION - WINTER 2024

Subject Code: 1SD103

Date: 10-12-2024

Subject Name: FUNDAMNETALS OF COMPUTER PROGRAMMING

Time: 11:00 AM to 01:00 PM

Total Marks: 50

Instructions

1. It is **compulsory** for students to write **Enrolment No. /Seat No.** on the question paper.
2. Attempt all questions in the question paper.
3. The figures to the right of each question indicate full marks. Make suitable assumptions with proper justification wherever required.
4. Simple, non-programmable scientific calculators are permitted.
5. BL - Bloom's Taxonomy Levels (R-Remember, U-Understanding, A-Application, N-Analyze, E-Evaluate, C-Create), CO - Course Outcomes.

		Marks	BL	CO
Q.1 Objective-Type Questions				
	[05]			
(a) C language was invented in which laboratories?	1	R	1	
(i) Uniliver Labs				
(ii) IBM Labs				
(iii) AT&T Bell Labs				
(iv) Verizon Labs				
(b) How many times will a 'do-while' loop execute its body if the condition is initially false in C?	1	U	2	
(i) 0 times				
(ii) 1 time				
(iii) Infinite times				
(iv) It depends on the loop body				
(c) What is the Format specifier used to print a String or Character array in C Printf or Scanf function?	1	R	3	
(i) %c				
(ii) %C				
(iii) %s				
(iv) %w				
(d) Every C Variable must have?	1	R	4	
(i) Type				
(ii) Storage Class				
(iii) Both Type and Storage Class				
(iv) Either Type or Storage Class				
(e) Where is a file temporarily stored before read or write operation in C language?	1	R	5	
(i) Notepad				
(ii) RAM				
(iii) Hard disk				
(iv) Buffer				

Q.2 Attempt Any Three	[15]		
(a) List and explain operators used in C with example.	5	U	1
(b) Write a program to print the following pattern. * ** *** ****	5	A	2
(c) Write differences between Structure and Union.	5	U	4
(d) What is pointer? How can you declare pointer variable? Explain with example.	5	R	5
Q.3 Attempt Any Three	[15]		
(a) Explain decision making statements used in C with example.	5	U	2
(b) Explain String in detail with example.	5	U	3
(c) What is function? Explain function prototype, function definition and function call with example.	5	A	4
(d) Explain various functions used in Dynamic Memory Allocation.	5	U	5
Q.4 Attempt Any Three	[15]		
(a) Write a C program to find factorial using recursion.	5	A	4
(b) What is an array? Explain types of array with example.	5	U	3
(c) What is File Management? List and explain different file operations.	5	R	5
(d) What is the difference between keywords and identifiers in C? Also state rules for identifiers of C.	5	A	1
