

SCAIS-1703-A-25
B.C.A. I Semester (SEP) Degree Examination
COMPUTER SCIENCE
Problem Solving Using C
Paper : DSC-3AT

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) All Sections are compulsory.
- 2) Draw neat and labelled diagram wherever necessary.

SECTION - A**Answer All the following questions.****(10×2=20)**

1.
 - a) Who was developed C language? where and when?
 - b) What is C character set?
 - c) What are escape Sequence characters?
 - d) What are unary operators?
 - e) What is implicit type conversion? Give an example.
 - f) What is the purpose of continue statement.
 - g) Differentiate array and other variable.
 - h) What is character array? Give an example.
 - i) Name the operators used to access union members.
 - j) What is file? List types of files.

SECTION - B**Answer any Six of the following questions.****(6×5=30)**

2. What are salient features of C language.
3. What are identifiers? What are the rules to be followed to frame an identifier?
4. Describe relational, logical operators in C with their precedence.
5. Write a C program to find sum of digits of a given number.
6. Explain any five character handling functions with suitable example.

7. What is pointer? What are its advantages and disadvantages.
8. How do you define declare and initialize the members of a structure? Explain with syntax and example.
9. Write a C program to create a file called std.rec and store student information such as name roll number and address.

SECTION - C

(3×10=30)

Answer any Three of the following questions.

10. Explain formatted D/O functions with an examples.
 11. Discuss branching statements in C with an example.
 12. Explain how arrays are represented on the computer memory.
 13. What are different ways of passing parameters to the function? Explain with an example.
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NCAIS-1353-A-23/24
B.C.A. I Semester (NEP) Degree Examination
COMPUTER SCIENCE
Programming in C
Paper : CACO2

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

Answer All Sections.

SECTION - A

Answer any Five of the following questions.

(5×2=10)

1. a) Who was developed C language? Where? When?
- b) What are Keywords?
- c) What is type casting? Give an example.
- d) What is the difference between ++a and -- a? Give an example.
- e) What are the main elements of an array declaration?
- f) What is NULL pointer?
- g) What is the use of 'typedef'? Give an example.

SECTION - B

Answer any Four of the following questions.

(4×5=20)

2. Explain the important features of C program.
3. What is variable? Write down the rules for framing the variable.
4. How do you classify the operators in C? Explain relational operators with their precedence.
5. What is an array? Discuss the advantages and disadvantages of arrays.
6. What is Pointer arithmetic? Explain.
7. Give the differences between structure and Union in C.

SECTION - C

Answer any Three of the following questions.

(3×10=30)

8. What are the types of Input-Output statements in C? Explain
9. Explain Switch statement with suitable example.
10. Discuss any five string handling functions with suitable example.
11. Write a C program to swap two numbers using pointers.
12. What are different categories of functions? Explain with example.
