

051BCA011 – F – 23 – 8414



FIRST SEMESTER B.C.A. (NEP) DEGREE EXAMINATION, MARCH 2023
INTRODUCTION TO ALGORITHM (DSC – 1)

Time : 2 Hours]

[Max. Marks : 60

Instruction : Answer Part – A, Part – B, Part – C questions.

PART – A

Answer any 5 questions. Each carries 2 marks. (5×2=10)

1. What is Algorithm ? List the characteristics of algorithm.
2. What is compiler and Loader ?
3. What is array ? How to declare array ?
4. What is local and global variable ?
5. What is C token ? List the C token.
6. What is computer ? List the characteristics.

PART – B

Answer any four questions. Each carries 5 marks. (4×5=20)

7. What is flow chart ? List the symbols used for drawing flowchart.
8. Write a C program to find GCD of two integer.
9. Explain scanf () and printf () with example.
10. What is loop ? Explain while and dowhile loop.
11. Explain logical operators with example.

[P.T.O.]



PART – C

Answer any 3 questions. Each carries 10 marks.

(3×10=30)

12. What is function ? Explain categories of function with example.

13. What is string ? Explain string handling functions with example.

14. Draw and explain the block diagram of computer.

15. a) What is recursion ? Write a program to find factorial of given number.

b) Explain Nested-if statement with example.

051 BCA 011—APRIL—22—322

FIRST SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2022
(NEP)

INTRODUCTION TO ALGORITHMS (DSCC-1)

Time : Two Hours

Maximum : 60 Marks

Part A

Answer any **five** questions.
Each question carries 2 marks.

1. Define Computer. List the characteristics of computer.
2. Define Linker and Loader.
3. What is flowchart?
4. What is conditional operator?
5. What is multidimensional array? Give example.
6. What is global variables and local variables?

(5 × 2 = 10 marks)

Part B

Answer any **four** questions.
Each question carries 5 marks.

7. What is variable? Write a rules for forming variables.
8. What is algorithm? Write algorithm for largest of three numbers.
9. What is C tokens? Mention their types.
10. Explain formatted Input/output statements.
11. Difference between While and Do-while statement.

(4 × 5 = 20 marks)

Part C

Answer any **three** questions.
Each question carries 10 marks.

12. Explain any five types of operators.
13. What is string? Explain strcmp(), strcpy(), strrrev(), strcat().
14. Draw and explain block diagram of computer.
15. (a) Write a C program to computing n th Fibonacci number.
(b) Write a C program to find summation of set of numbers.

(3 × 10 = 30 marks)

2036 - A21 - IS BCA - N - 19

FIRST SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2019
COMPUTER CONCEPTS AND C-PROGRAMMING

Time : 3 Hours]

[Max. Marks : 80

Answer any five full questions.

Draw diagrams wherever necessary.

a) Explain the generations of computer.

b) Explain any two output device with diagram.

c) Define Software and Hardware.

[8 + 6 + 2 = 16]

a) Difference between machine-level language and high-level language.

b) Explain the characteristics of C-program.

c) Draw the Flowchart to find simple interest.

[6 + 6 + 4 = 16]

a) Explain Tokens used in C-Language.

b) Define keyword. Mention all keywords available in C.

c) List Basic datatypes used in C.

[8 + 6 + 2 = 16]

a) Explain formatted Input, Output statements with syntax and example.

b) Discuss operators with their priority.

[8 + 8 = 16]

a) Define the following with syntax and flowchart.

i) if-else statement

ii) for-statement.

b) Write a C program to find addition and subtraction of two matrices.

[8 + 8 = 16]

a) Define Character Array. How to declare and Initialize two-dimensional Array?

b) Differentiate between the following:

i) Arguments & Parameter

ii) Local variable & global variable

c) Write function for sum of even () & sum of odd ().

[6 + 4 + 6 = 16]

a) Define string. Explain any three string Handling functions.

b) What is structure? Write structure for student information.

c) What is pointer? How to declare pointer?

[8 + 4 + 4 = 16]

[P.T.O.]

8. Write short notes on any **four**:
- a) Block Diagram of computer
 - b) Nested-for with example
 - c) Jumps in loops
 - d) Factorial program using function
 - e) Unions
 - f) Basic structure of C-program.
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5058 – A21 – IS BCA – N – 18

FIRST SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2018

COMPUTER CONCEPT & C PROGRAMMING

Paper I

Time : 3 Hours]

[Max. Marks : 80

Answer any five full questions.

Draw neat diagram wherever necessary.

1. a) Explain von-Neumann concept of computer system.
b) What do you mean by memory unit? Explain primary memory, secondary memory and cache memory. [8 + 8]
2. a) What do you mean by Input Unit? Explain the working of keyboard and mouse.
b) Compare Assemblers and Compilers.
c) What is system software? [8 + 6 + 2]
3. a) Write flowchart to find smallest of three numbers.
b) Explain basic structure of 'C' program.
c) Write various rules available for declaring variable in 'C'. [6 + 8 + 2 = 16]
4. a) Explain Keywords and identifiers in c.
b) Explain Ternary operator with suitable example.
c) Explain bitwise operators in detail with examples. [4 + 4 + 8 = 16]
5. a) Write a 'C' program to print the following pattern.
*
* *
* * *
* * * *
b) Write a 'C' program to read marks in 3 subjects and calculate average. Determine the class, when average ≥ 75 Distinction, > 60 First class, otherwise pass. [8 + 8 = 16]
6. a) What is array? Explain 2 Dimensional array with syntax and example.
b) Write a c program to read string and reverse it, without using built-in function.
c) What is union in 'C'? [8 + 6 + 2 = 16]

[P.T.O.]

7. a) Explain the declaration of function with suitable 'C' program.
b) Explain declaration and initializing pointer variable.
c) Define recursion function.

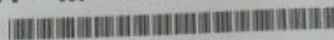
[8 + 6 + 2 = 16]

8. Write short notes on any four:

- a) Operating system.
b) Algorithm.
c) Tokens in 'C'.
d) Else-if Ladder.
e) String handling functions.
f) Header files in 'C'.

[4 × 4 = 16]

1135 – A21 – ISBCA – M – 22



FIRST SEMESTER B.C.A. (OLD) (NON-CBCS) DEGREE EXAMINATION,
MARCH/APRIL 2022

COMPUTER CONCEPTS AND C-PROGRAMMING (Old and OTM)

Time : 3 Hours]

[Max. Marks : 80

Instruction : Answer any five full questions.

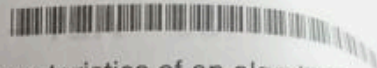
1. a) Discuss the different generation of computer.
b) Discuss the operations of following devices.
 - i) Light pen
 - ii) Joystick
 - iii) Keyboard
 - iv) Digitizer.

(8+8=16)
2. a) Differentiate between machine level language and high level language.
b) What is operating system ? Explain the function of operating system.
c) What is flowchart ? Draw the flowchart to find Biggest of 3 numbers.

(4+6+6=16)
3. a) What is 'C' token ? List the different C token and give example for each.
b) What is operator ? Explain relational and logical operators. (8+8=16)
4. a) Discuss in detail the formatted input/output statements.
b) Write general form and the flowchart for the following :
 - i) Simple if statement
 - ii) If else statement
 - iii) Nested if else statement.

(8+8=16)

[P.T.O.]



5. a) What is algorithm ? What are the characteristics of an algorithm ?

b) What are identifiers ? Write the rules for forming 'C' identifiers.

c) List the basic datatypes with their sizes in bytes. (6+6+4=16)

6. a) What is array ? How to declare and initializing arrays ?

b) What is function ? Write a program to swap two numbers using function.

c) What is pointer variable ? How do you declare the pointer variable. (6+6+4=16)

7. a) Explain following with example.

i) Strcpy()

ii) Strcat()

iii) Strcmp()

iv) Strlen()

b) What is recursion ? Explain with example.

c) Define structure.

(8+6+2=16)

8. Write a short note on any four :

a) Basic structure of C program.

b) Classification of printers.

c) Characteristics of computer.

d) Unions.

e) While loop.

f) Compiler and interpreter.

(4+4+4+4=16)

3033 - A21 - IS BCA - N - 17

FIRST SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2017

COMPUTER CONCEPT & C PROGRAMMING

Paper I

[Max. Marks : 80]

Time : 3 Hours]

*Answer any five full questions.
Draw diagram wherever necessary.*

1. a) What is Computer? With a neat diagram explain functional units of a Computer.
b) Write a note on generation of Computers. 6 + 6 + 4 = 16
c) Explain any two input/output devices.
2. a) What is a Software? Differentiate Machine level Language & High level Language.
b) Differentiate Compiler & interpreter. 6 + 4 + 6 = 16
c) Draw flow chart to find biggest of 3 numbers.
3. a) What do you mean by Token? Give the types of tokens & explain rules for forming identifier name. 8 + 8 = 16
b) Explain basic data types in C.
4. a) What is expression? Explain Logical & Relational operators with example. 8 + 8 = 16
b) Explain Scanf, Printf, gets & puts.
5. a) Explain switch statement with an example. 8 + 8 = 16
b) Explain for loop with an example.
c) Write a C program to check whether the given number is prime or not.
6. a) Define an array. Explain declaration & initialization of one dimensional arrays. 8 + 8 = 16
b) Explain any three string handling functions.

[P.T.O.]

7. a) Explain category of user defined functions with an example.
b) What is Structure? Give one example.
c) What is Pointer? How to declare pointer Variable?

$$8 + 4 + 4 = 16$$

8. Write short notes on any four:

$$4 \times 4 = 16$$

- a) Secondary storage.
 - b) Algorithm.
 - c) Ternary Operator.
 - d) While Loop.
 - e) Unions.
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051BCA011 – F – 24 – 6365



FIRST SEMESTER B.C.A. (NEP) DEGREE EXAMINATION, FEBRUARY 2024
INTRODUCTION TO ALGORITHMS (DSC – 1)

Time : 2 Hours]

[Max. Marks : 60

Instruction : Answer Part – A, Part – B, Part – C questions.

PART – A

Answer any 5 questions. Each carries 2 marks.

(5×2=10)

1. List the characteristics of computer.
2. What is compilers and linker ?
3. What is array ? How to declare array ?
4. What is local variable and global variable ?
5. List the basic data types in C language.
6. Mention any four header files.

PART – B

Answer any 4 questions. Each carries 5 marks.

(4×5=20)

7. What is flowchart ? Draw a flowchart for largest of 3 numbers.
8. What is algorithm ? Write a C program to find the factorial of a given number.
9. Explain scanf() and printf() with example.
10. What is loop ? Explain while and do-while loop.
11. Explain the basic structure of C language.

[P.T.O.]

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PART – C

(3×10=30)

Answer **any 3** questions. **Each** carries **10** marks.

12. What is function ? Explain categories of function with example.
 13. What is string ? Explain string handling function with example.
 14. Draw and explain block diagram of computer.
 15. a) What is recursion ? Exchange the value of two variables.
b) Explain Nested-if statement with example.
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