3

PART – B

II. Answer **any five** of the following. (5×10=50)

1) a) List the differences between linear and non-linear data structure. 5

   b) Write a C-program to find the GCD of two integer numbers using recursive function. 5

2) a) How do you declare an array ? Explain with syntax and example. 5

   b) Explain Quick sort technique with an example. 5

3) a) Explain Data structure. 5

   b) Write a C-program to display traversal of tree. 5

4) a) Explain Doubly linked list. 5

   b) Explain simple queue. 5

5) a) List out static and dynamic memory allocation. 5

   b) Explain preorder, inorder and post order traversal. 5

6), a) Explain strict and complete binary trees. 5

   b) Explain binary tree traversal. 5

7) a) Explain circular queue with an example. 5

   b) Write a C-program to convert infix expression to postfix. 5

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NEP

B.Sc. II Semester Degree Examination, September/October 2022
COMPUTER SCIENCE
DSC-1 (New) : Data Structures Using C

Time : 3 Hours

Max. Marks : 60

Instructions : 1) *Part –* ***A*** *: All questions are* **compulsory.**

2) *Part –* ***B*** *: Answer* ***any five*** *full questions.*

PART – A

I. Answer the following questions. (10×1=10)

1) What is an array ? Give an example.

2) Define : Data structure.

3) What is a) Malloc () b) Calloc () ?

4) Mention the classification of data structure.

5) Write any one difference between Bubble sort and Selection sort.

6) What is stack ? Give an example.

7) What is linked list ? Give an example.

8) Write the prefix and postfix expression of infix expression A+B and A+B*C.

9) Define Binary tree.

10) Mention the types of trees.

5. Explain recursion with an example?

6. Explain the procedure of sending a mail through an e-mail?

7. Define :

    a. Internet.

    b. LAN.

    c. Web site.

    d. WAN.

    e. Union.

B.Sc. II Semester Degree Examination, September - 2021

COMPUTER SCIENCE

Advanced C Programming and MS Office and Internet Tools

Paper : B.Sc.201CS

(New)

Time : 3 Hours   **Maximum Marks : 60**

Instructions to Candidates :   All parts are compulsory.

PART - A

I.   Answer the following questions.   (10×1=10)

1.   Define a function?

2.   Define recurssion?

3.   Define Called function?

4.   Define embedded structure?

5.   Define a pointer?

6.   Define a file?

7.   Define a network?

8.   What is a search engine?

9.   Define a cell in MS-Excel?
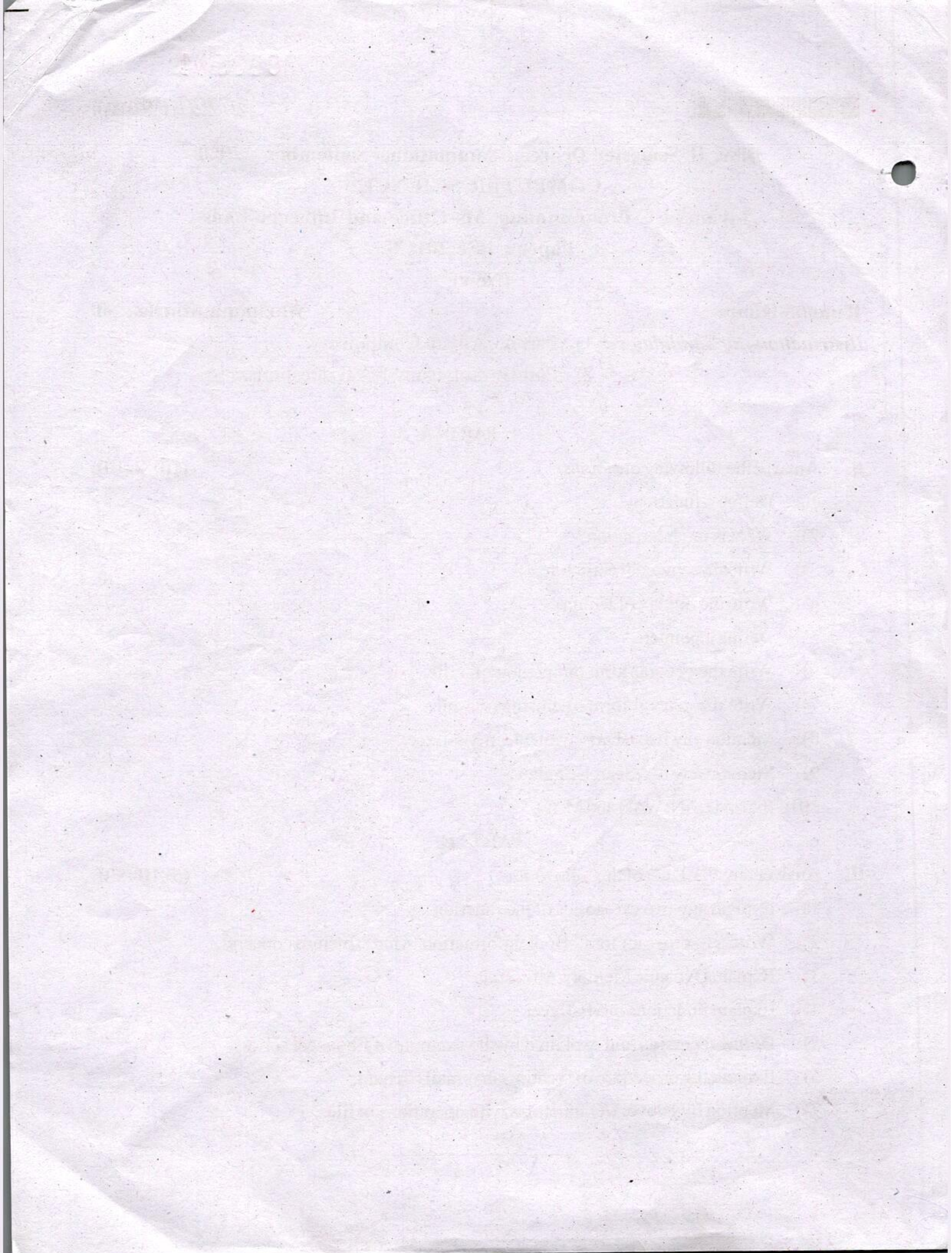
10.   Expand WWW and MAN?

PART - B

II.   Answer any **five** of the following.   (5×10=50)

1.   Mention the categories of function and explain any two with example?

2.   Write a C- program to find factorial of a number using function concept?

3.   Define a structure and write a C-program for student information using structure concepts?

4.   Mention different charts/graphs available in MS-Excel and explain any two?

[P.T.O.

B.Sc. II Semester Degree Examination, September - 2020
COMPUTER SCIENCE
Advanced C-Programming, Ms-Office and Internet Tools
Paper : BSc 201CS
(New)

Time : 3 Hours   Maximum Marks : 60

Instructions to Candidates : 1) Part A - All are Compulsory.
2) Part B - Solve any FIVE questions.

PART - A

I. Answer the following questions: (10×1=10)

1) Define a function.

2) What is modularization?

3) Write the syntax of Structure.

4) Write the Syntax of Union.

5) Define a pointer.

6) Write the general form of opening of a file.

7) Write the general form of closing of a file.

8) Mention any two Charts available in Ms-Excel.

9) Mention any two Search Engines.

10) Expand LAN, WAN and MAN.

PART - B

II. Answer any FIVE (5) of the following :   (5×10=50)

1) Explain any two categories of the function.

2) Write a C-program for C-Book information using structure concept.

3) Explain Dynamic Memory Allocation.

4) Explain Functions in Ms-Excel.

5) Define recursion and explain it by the example of fibonacci series.

6) Explain the procedure of creating an e-mail account.

7) Mention high level I/O functions with operations in file.

Part - B

II. Answer any **FIVE** of the following.   (5×10=50)

1. Mention the categories of a function and explain any two with example.

2. Explain recursion with an example.

3. Define a structure and write a C-program for student information using structure concept.

4. Mention different charts available in MS Excel and explain any two.

5. Write a C program for call by reference.

6. Explain the procedure of sending a mail through e-mail.

7. Explain different functions available in MS Excel.

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B.Sc. II Semester Degree Examination, April/May - 2019

COMPUTER SCIENCE

Advanced C-Programming, MS-Office and Internet tools

PAPER - BSC201CS

. (New)

Time : 3 Hours   Maximum Marks : 60

Instructions to Candidates:

    a)   Part A - All are compulsory.

    b)   Part B - Solve any **FIVE** questions.

Part - A

I.   Answer the following questions.   (10×1=10)

    i.   Define a function.

    ii.   Define recursion.

    iii.   Define an embedded structure.

    iv.   Define an union..

    v.   Define a pointer.

    vi.   Define a file.

    vii.   Define a cell in M.S. Excel.

    viii.   Define a cell reference in M.S. Excel.

    ix.   Expand LAN and MAN.

    x.   Mention any two search engines.

[P.T.O.

Section - B

II. Answer any **SIX** of the following :   (6×5=30)

13. Explain the different types of programming languages?

14. What are the rules to be followed while declaring a variable?

15. Differentiate between while and Do .... while statements.

16. Write a C program to find transpose of a given matrix.

17. Explain on switch statement with its syntax.

18. Write a C program to count vowels and consonants in a given string.

19. Write a C program to find sum of digits of a given number.

20. Explain on declaring a structure with example.

Section - C

III. Answer any **THREE** of the following :   (3×10=30)

21. Classify the operators in 'C' explain ternary operator with an example.

22. Explain on conditional control statements with their syntax and example.

23. Write a C program to find factorial of a given positive number using function.

24. Explain on string handling functions with their syntax and example.

25. What is structure? How do we declare a structure? Give its syntax with an example.

B.Sc II Semester Degree Examination, May - 2018

COMPUTER SCIENCE

Programming in 'C'

Paper - 204 C.S.

(New)

Time : 3 Hours   Maximum Marks : 80

Instructions to Candidates:

All the sections are **compulsory**.

Section - A

I.   Answer any **TEN** of the following :   (10×2=20)

1.   What is algorithm?

2.   What are the Features of 'C' language ?

3.   Write the syntax of printf ( ) and scanf ( ) statements?

4.   What is loop? List the types of loop?

5.   Give the syntax of declaring 1- Dimensional array?

6.   Define the term Recussion.

7.   What is the significance of NULL character?

8.   What is structure? Give an example.

9.   Write the syntax to declare a variable in C?

10.   What is pointer? Give an example

11.   What are reserved words? Give an example?

12.   What is union? Give an example.