# **Faculty of Science**

Code:1304/BL

# B.Sc (Computer Science) I-Year, CBCS-I Semester Backlog Examinations, January 2021 PAPER: PROGRAMMING IN C

Time: 2 Hours Max Marks: 80

I. Answer any **FOUR** of the following questions

(4x20=80 Marks)

- Describe generation and classification of programming languages, compiling, interpreting and software development.
- 2. Write algorithms and flowcharts for the following:
  - i) Binary search
  - ii) Factorial of N<sup>th</sup> number
- 3. What are special control statements? Explain in detail with C programs.
- 4. Explain in detail about functions of ctype.h and string.h with C programs.
- What are storage classes? Define inline functions. Explain these concepts with C programs.
- 6. Discuss about arrays and pointers and pointers and strings with C programs.
- 7. Define structure and union. Distinguish between structure and union. Write a C program to add two complex numbers by passing structure to a function.
- 8. (a) Write a C program to write all the members of an array of structures to a file using fwrite(). Read the array from the file and display on the screen.
  - (b) Write a C program to count the total number of characters inside the source file.

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Code:1304/19/BL

## **Faculty of Science**

# B.Sc (Computer Science) I-Year, CBCS-I Semester

# Backlog Examinations –June/July, 2022

PAPER: Programing in C

Time: 3 Hours Max Marks: 80

#### Section-A

I. Answer any eight of the following questions

(8x4=32 Marks)

- 1. What are the Keywords?
- 2. Type Conversions.
- 3. What is Interpreting?
- 4. Escape Sequences.
- 5. What is Control Statement? Write a program for "break" statement.
- 6. What is String?
- 7. What are the Inline Functions?
- 8. Explain about Recursion function.
- 9. What is Score of Variables?
- 10. Enumeration Types.
- 11. What is File?
- 12. Structures.

#### Section-B

II. Answer the following questions

(4x12=48 Marks)

13. (a) Write a program to find a number entered is prime number or not.

(OR)

- (b) Explain various types of operators in C. What is operator precedence and associativitly?
- 14. (a) What is an array? Explain multi-dimensional array with an example.

(OR)

- (b) What is loop? Explain various types of loop with syntax an example.
- 15. (a) Explain Call-by-Value Vs Call-by-reference with an example.

(OR)

- (b) What is pointer? Explain use of & and \* operators in pointer.
- 16. (a) Explain dynamic array of structure through pointer to structure.

(OR)

(b) Explain file handling through command line argument.

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R-19

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## **Faculty of Science**

# B.Sc (Computer Science) I-Year, CBCS -I Semester

### **Backlog Examinations - June, 2023**

**PAPER: Programming in C** 

Time: 3 Hours Max Marks: 80

#### Section-A

I. Answer any eight of the following questions

- (8x4=32 Marks)
- 1. Explain the different types of program statements in C
- 2. Explain the classification of computers.
- 3. Define a)compiler b)interpreter c)assembler d)translator
- 4. Explain about do. while statement.
- 5. Write about escape sequences with its purpose.
- 6. What is a string. Name some functions in string.h.
- 7. Explain about inline function.
- 8. List and explain storage classes in C.
- 9. Write a short note on address of operator.
- 10. Write the syntax of structure declaration.
- 11. Explain various operations on files.
- 12. Write about file management functions.

#### **Section-B**

II. Answer the following questions

(4x12=48 Marks)

13.(a) Define algorithm and explain in detail about different ways of stating an algorithm.

(OR)

- (b) Explain various C operators with examples.
- 14.(a) Explain about special control statements with syntax and examples.

(OR)

- (b) What is an array explain in detail about 1D and 2D array with an example.
- 15.(a) Explain call by value and call by reference with examples.

(OR)

- (b) Explain declaration, initialization and accessing of pointers in C with an example program.
- 16.(a) Differentiate between structure and union with example programs.

(OR)

(b) Explain about files and working with binary files in C language

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