

**THE CHARUTAR VIDYA MANDAL UNIVERSITY**M.Sc. Physics SEM – IV,  
Examination April 2023 (Regular)**C Programming**Subject Code: **101510401**DATE: 18<sup>th</sup> April 2023

TIME: 02:00 PM TO 04:00 PM

TOTAL MARKS: 60

- Q. 1 Choose the correct answer. [04]**
- (1) For the? operator \_\_\_\_\_ statement is true.  
 (A) conditional expression? expression1: expression2  
 (B) conditional expression: expression1? expression2  
 (C) conditional expression: expression1: expression2  
 (D) None of given
- (2) \_\_\_\_\_ is valid one dimension array declaration.  
 (A) Float height [15];  
 (B) Float height [36];  
 (C) Float height [88]  
 (D) None of above
- (3) For loop control of any program, we can use \_\_\_\_\_ loop.  
 (A) Entry controlled  
 (B) Exit controlled  
 (C) both (A) & (B)  
 (D) None of above.
- (4) A struct type in C is \_\_\_\_\_ data type.  
 (A) built-in  
 (B) extern  
 (C) Both (A) & (B)  
 (D) None of above
- Q.2 Answer the following. (Attempt any four each two marks) [08]**
- (1) List different arithmetic operator in C.  
 (2) Write a important and use of **continue** statement in C.  
 (3) What is recursion in C programming language?  
 (4) What is pointer in C programming language?  
 (5) What is difference between **getc** and **putc** function?
- Q.3 (A) Write note on bitwise operator in C programming language. [06]**  
**(B) Explain storage class and their meaning in C Program. [06]**
- OR**
- (B) Write a program to calculate average and square root of a set of 10 numbers using C. [06]**
- Q.4 (A) Enlist and explain elements of function in C programming. [06]**  
**(B) Write a program using structure for college librarian to store 20 books data of title, author, book price, and number of pages. [06]**
- OR**
- (B) Explain one dimension and two-dimension array in C programming language. [06]**
- Q.5 (A) Write a note on array of pointer. [06]**  
**(B) Write a program to print the address of the following variable along with its value. [06]**  
 a = 'A'; x = 125; p = 10.25, and q = 18.76;
- OR**
- (B) With necessary illustration explain initialization of pointer variables. [06]**
- Q. 6 (A) What is class and object in C++ programming language. [06]**  
**(B) Write a note on program testing and debugging in C++. [06]**
- OR**
- (B) Elaborate object-oriented programming for C ++. [06]**