



A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE
(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



Bachelor of Computer Applications (Semester 2) External Examination - 2025
US02MABCA01: Advanced C Programming

Date: 08-04-2025, (Tuesday)

Time: 02:00 PM to 04:30 PM (2.5hrs)

Total marks: 50

Q-1 Write the most appropriate answer from the following. MCQ.

[10]

1. By default, _____ is a return type of a C function.
(A) void (B) float
(C) int (D) None
2. The parameter is also known as _____.
(A) Argument (B) Variable
(C) Data type (D) Array
3. A _____ is a collection of different data items
(A) structure (B) array
(C) Char (D) None
4. _____ operator connects the structure name to its member.
(A) _ (underscore) (B) . (dot)
(C) ! (D) None
5. Which of the following is not a C memory allocation function?
(A) malloc() (B) calloc()
(C) realloc() (D) alloc()
6. How will you free the allocated memory
(A) remove(ptr) (B) free(ptr)
(C) dealloc(ptr) (D) destroy(ptr)
7. By default, all the files are opened in _____ mode
(A) binary (B) text
(C) octal (D) decimal
8. When fopen() is not able to open a file, it returns _____.
(A) EOF (B) one
(C) NULL (D) zero
9. The mode _____ is used for opening a file for updating.
(A) r (B) w
(C) r+ (D) a
10. A function which calls itself is known as _____.
(A) reverse (B) reserve
(C) recursive (D) None



Q-2 What is User Defined Function? Write advantages of User defined function and also explain function call and function declaration with syntax and example. [10]

OR

Q-2 Explain following function categories with syntax and example. [10]
1. No Passing parameters and return value.
2. Passing parameters and No Return value.

Q-3 Explain structure initialization and structure within structure with example. [10]

OR

Q-3 What is Union? Explain union with syntax and example and also write difference between structure and union. [10]

Q-4 What is pointer? List benefits of pointer and explain declaration, initialization and how can we access a variable through its pointer with syntax and example. [10]

OR

Q-4 What is dynamic memory allocation? List and explain dynamic memory allocation function with syntax and example. [10]

Q-5 What is a file? List basic file operations performed on file also list and explain different file modes with example. [10]

OR

Q-5 Explain error handling during I/O operations with syntax and one suitable program. [10]

===XXX===

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