

F.Y. B. SC. (Computer Science) SEM –II (CBCS - 2016 COURSE) :
WINTER - 2018
SUBJECT : PROGRAMMING IN C – II

Day : Wednesday
Date : 10/10/2018

W-2018-0904

Time : 03.00 PM TO 06.00 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.

Q.1 A) Choose the correct option and rewrite the statements: [06]

- i) _____ share a similarity in syntax.
 - a) Array and pointer
 - b) Union and structure
 - c) Union and array
 - d) None of these
- ii) Size of a union is determined by size of the _____.
 - a) First member in the union
 - b) Last member in the union
 - c) Biggest member in the union
 - d) Sum of the sizes of all members
- iii) _____ is an indirection operator.
 - a) &
 - b) *
 - c) →
 - d) .
- iv) An array elements are always stored in _____ memory locations.
 - a) Sequential
 - b) Random
 - c) Sequential and Random
 - d) None of the above
- v) _____ is odd one out.
 - a) printf()
 - b) fprintf()
 - c) putchar()
 - d) scanf()
- vi) _____ function is used to free the allocated memory.
 - a) free()
 - b) remove()
 - c) dealloc()
 - d) delete()

B) Answer in one sentence: [06]

- i) List different file streams in C.
- ii) What is malloc()?
- iii) Give purpose of strcmp ().
- iv) Differentiate between structure and union.
- v) What is EOF?
- vi) Give applications of Array.

Q.2 Answer ANY THREE of the following: [12]

- a) Define Array. Also explain with example how to access array elements.
- b) Give syntax and example of structure.
- c) Write a C program to show the use of pointers.
- d) What is File? State different types of files.

P.T.O.

Q.3 Answer **ANY FOUR** of the following: [12]

- a) Explain functions `fopen()` and `fclose()`.
- b) Describe any two standard library functions for string.
- c) Write a C program for accepting 10 integers and print them in the reverse order using array.
- d) What is union? Give syntax and example of union.
- e) Differentiate between static and dynamic memory allocation methods.

Q.4 Answer **ANY TWO** of the following: [12]

- a) Write a C program to accept 5 student records using array of structures and display them.
- b) What is random access to file? Explain `fseek()` and `rewind()`.
- c) Write a C program to show use of pointer to structure.

Q.5 Answer **ANY TWO** of the following: [12]

- a) Write a note on nested structures.
- b) Write a C program to create a text file.
- c) Write a C program to concatenate two strings.

* * * *