

Roll No.

BCA-C-102

B. C. A. (First Semester)

EXAMINATION, 2022-23

PROGRAMMING IN ‘C’

Time : 2½ Hours

Maximum Marks : 60

Note : All questions have to be attempted.

Section—A

1. Multiple choice questions : 1 each

- (a) If the mode includes b after the initial letter, what does it indicates ? (CO5, BL-1)
- (i) text file
 - (ii) big text file
 - (iii) binary file
 - (iv) blueprint text

(b) EOF is an integer type defined in stdio.h and has a value _____. (CO5, BL-2)

- (i) 1
- (ii) 0
- (iii) NULL
- (iv) -1

(c) What will be the value of y if x = 8 ?

(CO1, BL-1)

$$y = (x > 6 ? 4 : 6);$$

- (i) Compilation Error
- (iii) 0
- (ii) 4
- (iv) 6

(d) If you have to make decision based on multiple choices, which of the following is best suited ?

(BL-1)

- (i) if
- (ii) if-else
- (iii) if-else-if
- (iv) All of the above

(e) The continue statement cannot be used with _____. (CO1, BL-1)

- (i) for
- (ii) while
- (iii) do while
- (iv) switch

- (f) The C-preprocessors are specified with _____ symbol. (CO2, BL-2)
- (i) #
 - (ii) \$
 - (iii) ""
 - (iv) &
- (g) Which of the following is not possible under any scenario ? (CO4, BL-2)
- (i) s1 = &s2;
 - (ii) s1 = s2
 - (iii) (*s1) . number 10
 - (iv) None of the mentioned
- (h) How many number of pointer (*) does C have against a pointer variable declaration ? (CO5, BL-2)
- (i) 7
 - (ii) 127
 - (iii) 255
 - (iv) No limits
- (i) What is (void*) 0 ? (CO5, BL-1)
- (i) Representation of NULL pointer
 - (ii) Representation of void pointer
 - (iii) Error
 - (iv) None of the above

- (j) Local variables are stored in an area called _____.
(CO5, BL-1)
- (i) Heap
 - (ii) Permanent storage area
 - (iii) Free memory
 - (iv) Stack
- (k) In which header file is the NULL macro defined ?
(CO4, BL-1)
- (i) stdio.h
 - (ii) stddef.h
 - (iii) stdio.h and stddef.h
 - (iv) math.h
- (l) The keyword used to transfer control from a function back to the calling function is :
(CO3, BL-1)
- (i) switch
 - (ii) goto
 - (iii) go back
 - (iv) return

Section—B

2. Attempt any *four* of the following : 3 each
- (a) Explain the concept of switch statement with use of flow chart.
(CO2, BL-2)
- (b) Define assembler, compiler and interpreter.
(CO1, BL-1)

- (c) Write a program to implement fibnnoci series.
(CO3, BL-6)
- (d) Elaborate the advantage of union over structure.
(CO4, BL-4)
- (e) Write a program in C to implement read and write operation in file.
(CO5, BL-6)
3. Attempt any *two* of the following : 6 each
- (a) Write a program in C to swap two number using call by value and call by reference and show the steps.
(CO3, BL-6)
- (b) Define calloc, malloc and realloc with suitable example. Also explain its scope and significance.
(CO5, BL-2)
- (c) Draw a flow chart to find greatest number among three numbers.
(CO1, BL-6)
4. Attempt any *two* of the following :
- (a) Define recursive function. Where do we use recursive function ? Explain recursion with example.
(CO3, BL-2)
- (b) Explain the advantage of two-dimensional array over one-dimensional array with suitable example.
(CO2, BL-4)

- (c) Analyze the use of different storage classes in C
with suitable program. (CO3, BL-4)
5. Attempt any *two* of the following : 6 each
- (a) Define array of pointer. Elaborate array of pointer
with the help of C program. (CO4, BL-2)
- (b) Write a program in C to implement palindrome
using function. (CO3, BL-6)
- (c) Explain the types of logical operator used in C
with their notation. (CO1, BL-4)