

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOVEMBER – 2023

B.Sc. – COMPUTER TECHNOLOGY

MAXIMUM MARKS: 75

SEMESTER : I

TIME : 3 HOURS

PART – III

PROGRAMMING IN C

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. Which is the valid C expression?
a) `int my_num = 100,000;` b) `int my_num = 100000;`
c) `int my num = 1000;` d) `int $my_num = 10000;`
2. The C code 'for(;;)' represents an infinite loop. It can be terminated by _____
a) `break` b) `exit(0)` c) `abort()` d) `terminate`
3. The value obtained in the function is given back to main by using _____ keyword.
a) `return` b) `static` c) `new` d) `volatile`
4. Find how many characters can be stored in `str1`, it is declared as `char str1[10].....`
a) 10 b) 9 c) As many as we can store d) 1
5. EOF is an integer type defined in 'stdio', the hand has a value _____
a) 1 b) 0 c) NULL d) -1

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. List any two unary operators.
7. State how break and continue are differing.
8. Describe recursion.
9. State the role of `strncmp()` in C .
10. Define command Line Arguments.

(CONTD 2)

SECTION – B**(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(K3)**

11. a) Classify the primary data types in C
(OR)
b) Develop a C program to convert the temperature from centigrade to Fahrenheit.
12. a) Compute to print the largest and smallest element in the given array.
(OR)
b) Distinguish between Arrays and Structure
13. a) Elucidate the elements of user defined functions
(OR)
b) Explain nesting of functions
14. a) List out any 4 string handling functions and explain.
(OR)
b) Give short note on pointer declaration and initialization
15. a) Show how to open and close a file with code segment
(OR)
b) Enumerate the file handling functions in C library.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(K4 (Or) K5)**

16. a) Develop a C program to find the roots of quadratic equation.
(OR)
b) Illustrate tokens in C.
17. a) Construct a C program to convert the given decimal number into binary.
(OR)
b) Summarize the jump statements in C
18. a) Categorize the user defined functions and demonstrate any 2 with examples.]
(OR)
b) Develop a C program to print the Fibonacci series using recursion.
19. a) Develop a C program to concatenate two strings without using library functions.
(OR)
b) Develop a C program to sort names in descending order.
20. a) Discuss Input / Output operations on files.
(OR)
b) Construct a C program to list the features of C language using command line arguments.