

Reg. No.

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G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., MATHEMATICS

| SEM | CATEGORY | COMPONENT | COURSE CODE | COURSE TITLE |
|-----|----------|--------------------|-------------|-----------------------------|
| IV | PART-III | ELECTIVE GENERIC-4 | U23MA4A4 | PROGRAMMING LANGUAGE WITH C |

Date & Session: 03.05.2025/AN

Time : 3 hours

Maximum: 75 Marks

| Course Outcome | Bloom's K-level | Q. No. | SECTION – A (10 X 1 = 10 Marks) Answer <u>ALL</u> Questions. |
|----------------|-----------------|--------|--------------------------------------------------------------------------------------------------------------|
| CO1 | K1 | 1. | All ____ have fixed meanings in C. a) identifiers b) keywords c) constants d) tokens. |
| CO1 | K2 | 2. | Which of the following is not basic data types? a) signed int b) float c) char d) str. |
| CO2 | K1 | 3. | The number of logical operators in C is ____. a) 3 b) 4 c) 5 d) 6. |
| CO2 | K2 | 4. | The value of the expression $2*3/4+4/4+8-2+5/8$ is ____. a) 5 b) 7 c) 8 d) none of these. |
| CO3 | K1 | 5. | C has a multi decision statement known as ____ statement. a) if b) do c) switch d) while. |
| CO3 | K2 | 6. | In the for statement, there are ____ sections. a) 3 b) 2 c) 1 d) 0. |
| CO4 | K1 | 7. | An array subscript always begin with the number ____. a) -1 b) 0 c) 1 d) 2. |
| CO4 | K2 | 8. | ____ function joins the two given strings. a) strcmp() b) strcpy() c) strlen() d) strcat(). |
| CO5 | K1 | 9. | A variable declared inside a function is called ____. a) local b) reference c) global d) static. |
| CO5 | K2 | 10. | A function declaration consists of ____ parts. a) one b) two c) three d) four. |

| Course Outcome | Bloom's K-level | Q. No. | <p align="center">SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)</p> |
|----------------|-----------------|--------|---------------------------------------------------------------------------------------------------------------------------------|
| CO1 | K3 | 11a. | What is meant by identifiers? Give the rules regarding it. (OR) |
| CO1 | K3 | 11b. | Find the validity and give reasons for the following variable names or not: i. Price\$ ii. group two iii. 14th iv. Delhi v. x1. |
| CO2 | K3 | 12a. | Write a short note on conditional operator. (OR) |
| CO2 | K3 | 12b. | Write the rules to be followed while evaluating arithmetic expressions. |
| CO3 | K4 | 13a. | Write a short note on if...else statement. (OR) |
| CO3 | K4 | 13b. | Explain while statement. |
| CO4 | K4 | 14a. | Explain the multi-dimensional array. (OR) |
| CO4 | K4 | 14b. | Explain reading strings from terminal. |
| CO5 | K5 | 15a. | What are the main points to be considered on function declaration? (OR) |
| CO5 | K5 | 15b. | Explain function with arguments with return values. |

| Course Outcome | Bloom's K-level | Q. No. | <p align="center">SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)</p> |
|----------------|-----------------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| CO1 | K3 | 16a. | Discuss different data types in C. (OR) |
| CO1 | K3 | 16b. | Write the rules for defining symbolic constants. |
| CO2 | K4 | 17a. | Explain about special operators. (OR) |
| CO2 | K4 | 17b. | Discuss about the assignment operators with suitable example. |
| CO3 | K4 | 18a. | Explain formatted output with examples. (OR) |
| CO3 | K4 | 18b. | What are the rules for switch statement? |
| CO4 | K5 | 19a. | How to initialize one dimensional array? Explain. (OR) |
| CO4 | K5 | 19b. | Discuss any three of string handling functions. |
| CO5 | K5 | 20a. | Explain how to define a function? (OR) |
| CO5 | K5 | 20b. | Write a short note on i. No arguments and no return values and ii. Arguments but no return values. |