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| QP Code: D 122589  |  | Total Pages: 1           | Name: |
|  |  | Register No.             |       |
| <b>SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2025</b>                          |  |                          |       |
| <b>BCA</b>   |  |                          |       |
| <b>BCA2CJ101- Fundamentals of Programming ( C Language)</b>                              |  |                          |       |
| <b>2024 Admission onwards</b>  |  |                          |       |
| <b>Maximum Time :2 Hours</b>   |  | <b>Maximum Marks :70</b> |       |
| <b>Section A</b>   |  |                          |       |
| <b>All Questions can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)</b> |  |                          |       |
| 1  | List out the basic data types.                       |                          |       |
| 2  | Differentiate increment and decrement operators.     |                          |       |
| 3  | Explain about mathematical functions.                |                          |       |
| 4  | Describe the working of conditional operator.        |                          |       |
| 5  | Describe about nesting of functions.                 |                          |       |
| 6  | Explain about operator precedence.                   |                          |       |
| 7  | Explain about the syntax of for loop.                |                          |       |
| 8  | How can we read strings?                             |                          |       |
| 9  | Define recursion.                                    |                          |       |
| 10   | Explain about function definition.                   |                          |       |
| <b>Section B</b>   |  |                          |       |
| <b>All Questions can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)</b> |  |                          |       |
| 11   | Explain the structure of C program with an example.  |                          |       |
| 12   | Explain about different types of looping structures. |                          |       |
| 13   | Explain about string handling functions.             |                          |       |
| 14   | Differentiate structure and union.                   |                          |       |
| 15   | How can we pass arrays to functions?                 |                          |       |
| 16   | Describe about various categories of functions.      |                          |       |
| 17   | Explain the concept of pointers.                     |                          |       |
| 18   | Explain about dynamic memory allocation.             |                          |       |
| <b>Section C</b>   |  |                          |       |
| <b>Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)</b>                    |  |                          |       |
| 19   | Explain in detail about C tokens.                    |                          |       |
| 20   | Explain about 2D arrays in detail.                   |                          |       |