

OR

10. (a) Explain array of Pointers and Pointer Arithmetic. 6
- (b) Explain with suitable example how you will declare and initialize one and two dimensional array element. 6

OR



(b) Write a C program to display the following output :

```

      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * *
* * * * *

```

(a) What is an array? Explain the declaration and initialization of one dimensional array with example. 6

(b) Explain pointer declaration and initialization with example. 6

AR-629

4

4600

AR - 629

First Semester B. C. A. (Part - I) Examination

C - PROGRAMMING

Paper - 1 ST 2

P. Pages : 4

Time : Three Hours]

[Max. Marks : 60

- Note :** (1) All question carry equal marks.
 (2) All question are compulsory.
 (3) Assume suitable data if necessary.
 (4) Draw neat sketches if required.

1. (a) Explain the structure of 'C' program with example. 6
- (b) Define 'C' tokens. Explain any four C-tokens in C-language. 6

OR

2. (a) Explain the following :—
- (i) Constant.
 - (ii) Variable.
 - (iii) Identifiers.
 - (iv) Keywords. 8

AR-629

P.T.O.

(b) Explain basic data types and Enumerated Data type. 4

3. (a) Explain Arithmetic and relational operators with example. 6

(b) Explain Assignment and conditional operators with example. 6

OR

4. (a) Explain comma and size of operators with example. 6

(b) Explain bitwise operators with syntax and example. 6

5. (a) Explain unformatted I/O functions in C with example (any six). 8

(b) Write a program in C to demonstrate the working of getS() and putS(). 4

OR

6. (a) Explain scanf() and printf() functions with suitable example. 8

(b) Write a program in C to swap any two integer numbers. 4

7. (a) Explain nested if structure with example. 6

(b) Explain the following with syntax and example :—

(i) Break.

(ii) Continue. 6

OR

8. (a) What is looping ? Explain for loop with example. 6

(b) Write a C program to display the following output :

```

      *
    * *
  * * *
* * * *
* * * * *
```

6

9. (a) What is an array ? Explain the declaration and initialisation of one dimensional array with example. 6

(b) Explain pointer declaration and initialisation with example. 6