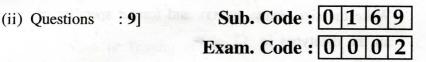
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B.A./B.Sc. (General) 2nd Semester Examination

# 1047

## COMPUTER APPLICATIONS (Operating System Concepts) Paper : CA04

### Time : 3 Hours]

[Max. Marks: 30

Note :- Attempt one question from each Section-A, B, C and D. Question No. 9 of Section-E is compulsory question. All questions carry equal marks.

### Section-A

# 6 each

1. What is an Algorithm ? How an algorithm 15 different from pseudocode ? Write an algorithm to find whether a number is prime or not.

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Turn Over

What is Datatype ? Explain datatypes with examples.
Write the size, range, syntax and format specifier of all the datatypes in 'C'.

### Section-B

6 each

- 3. What are branching statements ? Explain its types. Write a program to find greater number among three numbers.
- 4. What are looping statements ? Difference between while() loop and do-while() loop with example.

Section-C

6 each

- 5. Explain library functions and user defined functions with example.
- 6. Write a program to find the largest and smallest element of a matrix. Also find the range.

### Section-D

6 each

- 7. Write a program to check whether a given string is palindrome or not.
- 8. Explain the following with example :
  - (a) structure
  - (b) union

(c) string handling functions

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## Section-E

## (Compulsory Question)

- 9. (a) What is Testing and Debugging ?
  - (b) What is an Operator ? Give its types.
  - (c) What are various jumping statements in 'C' Language ? Explain.
  - (d) Define 2-D array.
  - (e) Difference between call by value and call by address.
  - (f) What is Recursion ?

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