

(i) Printed Pages : 3]

Roll No.

(ii) Questions : 9]

Sub. Code :

0	1	6	9
---	---	---	---

Exam. Code :

0	0	0	2
---	---	---	---

**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 is different from pseudocode ? Write an algorithm to find whether a number is prime or not.

N-114

(1)

Turn Over

2. 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

Section-E

6×1=6

(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 ?