No. of Printed Pages—2

393 (ICP)

[17-HRGPKAC-D1S]

BCA 1st Semester Exam., 2017

INTRODUCTION TO COMPUTER PROGRAMMING USING C

[BCA (S1) 02]

Full Marks : 50

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. Answer the following questions : 1×6=6

(a) Define algorithm.

(b) What is meant by prototyping?

(c) Give one example of logical AND operator.

(d) Write the syntax of function definition in C.

(e) What is a pointer?

(f) Write one difference between structure and union.

2. Answer the following questions : 2×5=10

(a) Write two differences between variables and constants.

(b) What is an operator? Give examples.

(c) Write the syntax of break statement.

(d) What is meant by array of structure?

(e) Write the main difference between getc( ) and fgets( ) functions.

3. Answer any *two* from the following questions : 4×2=8

(a) Write an algorithm to find the area of a rectangle.

(b) With suitable examples, briefly describe increment and decrement operators.

(c) What is a structure? Explain.

4. Answer any *two* from the following questions : 8×2=16

(a) With suitable examples, explain the static and automatic storage class variables. 8

(b) What is recursion? Write a C program to generate first n Fibonacci terms using recursion. 2+6=8

(c) What is an array? How can arrays of strings be declared? Write functions to reverse a string. 2+2+4=8

5. Answer any *one* from the following questions : 10

(a) What do you mean by conditional statement? Briefly explain at least four conditional statements used in C languages. Give syntax for each statement. 2+8=10

(b) Write short notes on the following (any *two*) : 5×2=10

(i) Data type

(ii) Preprocessor directive

(iii) getc( ) and putc( )

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