Total No. of printed pages = 3

BMD 171202

Roll No. of candidate | | | | | | | | | |

2018

B.Des. 2nd Semester End-Term Examination

INTRODUCTION TO COMPUTER PROGRAMMING

(New Regulation)

Full Marks – 70 Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any *four* from the rest.

1. (a) Choose the correct answer from the following :: $(5 \times 1 = 5)$

(i) Which of the following language is predecessor to C Programming Language?

(1) A
(2) B
(3) BCPL
(4) C++

(ii) All keywords in C are in

(1) LowerCase letters
(2) UpperCase letters
(3) CamelCase letters
(4) None of the above

[Turn over

(iii) Unsigned char has a range from 0 to _____.

(1) 253 (2) 254
(3) 255 (4) 256

(iv) A variable declared in a function can be used in main

(1) True
(2) False
(3) True if it is declared static
(4) None of the above

(v) A function to be called must be ended with a _____.

(1) .
(2) ?
(3) ;
(4) None of the above

(b) State true or false for the following statements : $(5 \times 1 = 5)$

(i) The modulus operator % can be used only with integers.

(ii) A recursive function calls itself again and again.

(iii) Only one break can be used in one loop.

(iv) = and = = have the same operation.

(v) The main () function can be called from any other function.

2. (a) Explain the different kinds of loops available in C with examples. (10)

(b) Write a C program to print the following output using nested loops. (5)

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

3. (a) Explain one dimensional array with an example. (5)

(b) Write a program to find multiple of two matrices. (10)

4. (a) What is structure? Write the syntax to define structure. (3 + 2 = 5)

(b) Declare a structure 'Book' having data, members' title, author and price. Accept this data for one variable and display accepted result. (10)

5. (a) Explain about AND, OR, NOT, NAND and NOR gate with diagram and truth table for each. (10)

(b) Write a program to print Fibonacci series up to 100. (5)

6. (a) Demonstrate the usage of switch statement with an example. (7)

(b) Explain the use of break and continue statement with example. (8)

7. (a) Explain the various Decision making statements in C with an example for each. (10)

(b) Explain the use Printf() and scanf() function with example. (5)