

Total No. of printed pages = 4

BMD 171202

Roll No. of candidate

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2019

B.Des. (MCD) 2nd Semester End-Term Examination
INTRODUCTION TO COMPUTER PROGRAMMING
(New Regulation)

(w.e.f 2017 - 2018)

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. Answer the following: (ordering/MCQ/Fill in the
blanks)

(10 × 1 = 10)

(i) Write down the following computer in history
manner:

- (a) Mark 1
- (b) The ENIAC
- (c) Herman Hollerith
- (d) The Atanasoff-Berry Computer (ABC)

(ii) Which is the correct equivalent of 1GB?

- (a) 1000 bytes
- (b) 1000 megabytes
- (c) 1000000 bytes
- (d) None

[Turn over

- (iii) Where resides the CPU and primary memory?
- (a) Chip
 - (b) Motherboard
 - (c) Both
 - (d) None
- (iv) The decimal representation of '1011' is _____ which is negative decimal number.
- (v) The binary representation of '62' is _____ in 6 bits.
- (vi) What is the use of third term in for loop?
- (a) Initialization
 - (b) Increment
 - (c) Decrement
 - (d) Both 'ii' and 'iii'
- (vii) What is the full form of MICR?
- (a) magnetic-identity character recognition
 - (b) magnetic-ink character recognition
 - (c) magnetic-ink character receptor
 - (d) None
- (viii) What is the role of MSB in binary number?
- (a) magnitude
 - (b) sign
 - (c) None
 - (d) Both
- (ix) In which case, "incompatible implicit declaration of built-in function" error occurs?
- (a) Function missing and header file exiting
 - (b) Function existing and header file missing
 - (c) Function missing and header file missing
 - (d) None
- (x) The length of string is count using _____ function.

2. (a) Explain the structure and function with the programming examples, and find the key differences between both. (8)
- (b) Write a c program to interchange the two input strings using string function. (7)
3. (a) What is recursion? Describe with example. (8)
- (b) Write a c program to print the following number matrix. (7)

1-1234 5

2-1234

3-123

4-12

5-1

4. (a) There is a mistake in the following program. Add a datatype in it to remove this error. (5)

```
#include<stdio.h>
main()
{
    int x;
    mul(int, float);
    x =mul(4, 0.50);
    printf("\n %d", x);
}
mul (int xx, float yy)
    return (xx*yy);
}
```

- (b) Write a c program to print the following number matrix. (10)

1-54321

2-5432

3-543

4-54

5-5

5. (a) Describe the generation of computers in details with size, technology used, language used, and machine examples. (7)
 - (b) Differentiate among molecular, quantum, DNA and biological computing. (8)
 6. (a) What is the key difference between hardware and software components and explain all the hardware components? (8)
 - (b) How do computers communicate and explain the encoding schemes? (7)
 7. (a) Classify the computers with their capabilities such as processing, use and manufacturers (8)
 - (b) How to do programming in modern computers? (4)
 - (c) What is the role of register and memory inside the machine? (3)
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