Total No. of printed pages = 4

BMD 171104

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

2017

B.Des. 1st Semester End-Term Examination

COMPUTER FUNDAMENTALS AND OPERATION

(NEW REGULATION)

Full Marks – 70 Time – Three hours

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

Part A is compulsory and answer any four question from Part B.

Part A

1. Multiple choice questions : (10 × 1 = 10)

   (a) Who designed the first electronics computer – ENIAC?

   (i) Van-Neumann

   (ii) Joseph M. Jacquard

   (iii) J. Presper Eckert and John W Mauchly

   (iv) None of the above

   (b) The symbols used in an assembly language are

   (i) Codes

   (ii) Mnemonics

   (iii) Assembler

   (iv) None of the above

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(c) Which is typically the longest : bit, byte, nibble, word

(i) Bit

(ii) Byte

(iii) Nibble

(iv) Word

(d) Which part interprets program instructions and initiate control operations?

(i) Input

(ii) Storage unit

(iii) Control unit

(iv) None of the above

(e) Which media does not come under the guided media?

(i) Optical fibre

(ii) Co-axial cable

(iii) Microwave

(iv) Twisted Pair

(f) The decimal number 18 is equal to the binary number ————

(i) 11110

(ii) 10001

(iii) 10010

(iv) None

(g) Which of the following is the most widely used alphanumeric code for computer input and output?

(i) Gray

(ii) ASCII

(iii) Parity

(iv) EBCDIC

(h) The printed output from computer is called

(i) Copy

(ii) Soft Copy

(iii) Hard Copy

(iv) Paper

(i) FTP stands for

(i) File transmission protocol

(ii) File transfer protocol

(iii) Form transfer protocol

(iv) Form transmission protocol

(j) ———— are set of rules and procedures to control the data transmission over the internet.

(i) IP address

(ii) Domain

(iii) Protocol

(iv) Gateway

PART B

2. (a) Explain about the different types of memory in details. (7)

(b) Define the basic characteristics of the following I/O devices. (4 × 2 = 8)

(i) LCD Monitor

(ii) Printer

(iii) Mouse

(iv) Scanner

3. (a) Write a brief note on BCD and ASCII code. (3 + 3 = 6)

(b) Convert the octal number 577.46 to the following : (3 × 3 = 9)

(i) BCD Equivalent

(ii) Decimal number

(iii) Hexadecimal number.

4. Write the algorithm and draw the flowchart for the following : (3 × 5 = 15)

(a) Calculate the interest of a bank deposit.

(b) Determine and Output whether number N is Even or Odd.

(c) Determine whether a student passed in exam or not.

5. (a) Explain various types of networks. (6)

(b) Explain the data transmission mode in brief. (5)

(c) Explain about any two types of network device. (2 + 2 = 4)

6. Write short notes on the following : (5 × 3 = 15)

(a) HTTP

(b) Search engine

(c) E-commerce

(d) Operating system

(e) World Wide Web and Internet.