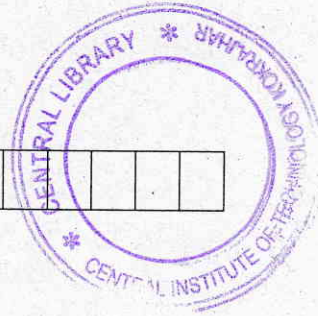


Total No. of printed pages = 4

BMD 171104

Roll No. of candidate

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2019

B.Des. 1st Semester End-Term Examination

(Multimedia Communication and Design)

COMPUTER FUNDAMENTALS AND OPERATION

(New Regulation)

(w.e.f. 2017-18)

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. Choose the correct answers from the following:
(10 × 1 = 10)
 - (i) Which unit is responsible for converting the data received from the user into computer understandable format?
 - (a) Memory Unit
 - (b) Arithmetic and Logic Unit
 - (c) Input Unit
 - (d) None of the above
 - (ii) One nibble is equivalent to how many bits?
 - (a) 4
 - (b) 2
 - (c) 4
 - (d) 8

[Turn over

(iii) Which of the following is not a function of the Output Unit?

- (a) It produces results that can be easily understood by the user
- (b) It produces results that cannot be easily understood by the user
- (c) It supplies the data and instructions to the outside world
- (d) It supplies the data and instructions to the computer for further processing

(iv) ISP stands for

- (a) Internet Search Provider
- (b) Internet Serial Provider
- (c) Universal Serial Provider
- (d) Internet Service Provider

(v) Three or more devices share a link in _____ connection

- (a) Unipoint
- (b) Multipoint
- (c) Point to point
- (d) None of the mentioned

(vi) Bluetooth is an example of?

- (a) Personal Area Network
- (b) Local Area Network
- (c) Virtual Private Network
- (d) None of the above

(vii) Components that provide internal storage to the CPU are

- (a) Registers
- (b) Program Counters
- (c) Controllers
- (d) Internal chips

(viii) The binary equivalent 10101 to its decimal equivalent.

- (a) 21
- (b) 2
- (c) 22
- (d) 31

(ix) A program that reads each of the instructions in mnemonic form and translates it into the machine-language equivalent

- (a) Machine language
- (b) Assembler
- (c) Interpreter
- (d) None of the above

(x) The operation represented by parallelograms in flowchart

- (a) Input/Output
- (b) Assignment
- (c) Comparison
- (d) Conditions



2. (a) With the help of a block diagram, explain the basic organization of a computer system. (10)
- (b) Differentiate between Microcomputers, Minicomputers and Mainframes (5)
3. (a) Compare the five generations of computers on the basis of the technologies used. (5)
- (b) What is an Operating System? Explain all the four types of operating systems. (4+6)
4. (a) Give a brief explanation on machine language, assembly language and high level language. (9)
- (b) Explain the three data transmission modes in brief. (6)
5. (a) What is RAM? Distinguish between static RAM and dynamic RAM. (3+4)
- (b) What do you mean by networks? Explain various types of networks. (2+6)
6. (a) Explain about BCD and ASCII code. (2+3)
- (b) (i) Convert 1111000001.1110 base 2 to other equivalent bases. (5+5)
- (ii) 1312 base 8 to other equivalent bases.
7. (a) Define the terms – Bridges, Gateways, Routers, and Switches. (2+2+2)
- (b) Write short notes on: - Search engine, FTP, E-mail. (3+3+3)