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END SEMESTER EXAMINATION, NOVEMBER-2018

Semester – 3rd

Subject Code : It-301 (Main)

INFORMATION TECHNOLOGY

Full Marks – 70

Time – Three hours

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

Instructions :

1. All questions of PART-A are compulsory.
2. Answer any five questions from PART-B.

PART – A

Marks – 25

1. Fill in the blanks : 1 × 10 = 10
 - (a) A memory that requires refreshing of data is _____.
 - (b) COBOL stands for _____.
 - (c) Smallest quantum of data is _____.

[Turn over

- (d) A set of instructions is called _____.
 - (e) Hexadecimal value of 13 is _____.
 - (f) _____ memory is fastest than main memory.
 - (g) Network of computer network is called _____.
 - (h) Arranging data in a particular order is known as _____.
 - (i) Program which acts as a interface between a user and hardware _____.
 - (j) _____ is a pointing device.
2. Write true or false : $1 \times 10 = 10$
- (a) A bit represents an on or off state.
 - (b) The CPU cache is a type of memory.
 - (c) The hexadecimal number system contains digits from 1-15.
 - (d) CPU controls only input data of computer.
 - (e) A trackball is an output device.
 - (f) A byte is the smallest unit of information.

- (g) Resolution of a printer is the number of dot per inch it produces.
 - (h) A giga byte is roughly one trillion bytes.
 - (i) Binary value of 303 is 00110011.
 - (j) Compiler converts high level language.
3. Choose the correct answer : $1 \times 5 = 5$
- (a) Chief component of second generation of computer was
 - (i) Transistor
 - (ii) Vacuum tubes
 - (iii) Integrated circuit
 - (iv) None of the above
 - (b) The basic operations performed by a computer
 - (i) Arithmetic operation
 - (ii) Logical operation
 - (iii) Storage and retrieve
 - (iv) All of the above

(c) Microprocessor as switching devices are for which generation ?

- (i) First
- (ii) Second
- (iii) Third
- (iv) Fourth

(d) UNIVAC is

- (i) Universal Automatic Computer
- (ii) Universal Array Computer
- (iii) Unique Automatic Computer
- (iv) Unvalued Automatic Computer

(e) Which of the following is not an input device ?

- (i) OCR
- (ii) Optical scanner
- (iii) Voice recognition device
- (iv) COM

PART - B

Marks - 45

4. (a) Differentiate between analog and digital computers. 3

(b) Explain the characteristics of a computer. 3

(c) Write differences between main memory and secondary memory. 3

5. (a) What are the characteristics of an algorithm. 3

(b) Differentiate between compiler and interpreter. 3

(c) Draw a flowchart to find larger of two numbers. 3

6. (a) Define Internet and WWW. 3

(b) Explain the different services of Internet. 3

(c) What is ISP ? 3

7. (a) Explain about ASCII and BCD code. 4
(b) Convert binary number 11001100010 to other bases. 5
8. (a) Explain about the different data compression techniques. 5
(b) Write a note on Huffman coding. 4
9. What is transmission media ? Explain about the different types of transmission media. 9