Code : 303103

BCA 1st Semester Exam., 2024

INFORMATION TECHNOLOGY AND APPLICATION

Time : 3 hours   Full Marks : 60

Instructions :

(i) *The marks are indicated in the right-hand margin.*

(ii) *There are* **SEVEN** *questions in this paper.*

(iii) *Attempt* **FIVE** *questions in all.*

(iv) *Question Nos.* **1** *and* **2** *are compulsory.*

1. Choose the correct option (any *six*) :   2×6=12

   (a) Semiconductor memory device in which stored data will remain permanently stored as long as power is supplied is

      (i) dynamic memory device

      (ii) storage device

      (iii) flash device

      (iv) static memory device

   (b) The ribbon is used in

      (i) laser printer

      (ii) plotter

      (iii) inkjet printer

      (iv) dot matrix printer

   (c) Main memory is also known as

      (i) auxiliary memory

      (ii) primary memory

      (iii) secondary memory

      (iv) None of the above

   (d) Which topology covers security, robust and eliminating traffic factor?

      (i) Mesh

      (ii) Ring

      (iii) Star

      (iv) Bus

   (e) A communication pathway that transfers data from one point to another is called

      (i) link

      (ii) node

      (iii) medium

      (iv) topology

   (f) Silicon piece with a system circuit on it is termed as

      (i) chip

      (ii) circuit

      (iii) logical gate

      (iv) circuit network

(g) Which of the following is designed to control the operations of a computer?

   (i) Application software

   (ii) System software

   (iii) Utility software

   (iv) User

(h) The process of drawing a flowchart for an algorithm is called

   (i) performance

   (ii) evaluation

   (iii) algorithmic representation

   (iv) flowcharting

(i) The _____ symbol is used to represent decision in flowchart.

   (i) circle

   (ii) rectangle

   (iii) diamond

   (iv) None of the above

(j) _____ is a symbol used to connect two symbols of flowchart.

   (i) Circle

   (ii) Rectangle

   (iii) Diamond

   (iv) Arrow

2. Answer any *three* of the following :   4×3=12

   (a) What is a third generation computer?

   (b) What is a secondary storage system?

   (c) What is system software?

   (d) Define algorithm and write the key features of algorithm.

   (e) What is modem? What is its function?

3. What are the basic characteristics of computer?   12

4. How can you classify storage devices? What are its different types? Elaborate.   12

5. What are the characteristics of a good programming language?   12

6. What are the functions of an Operating System?   12

7. What is a transmission media? Write the types of transmission media.   12

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