Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 21101 Roll No. | | | | | | | | | |

BCA Examination 2018-19

(First Semester)

COMPUTER FUNDAMENTAL

Time : Three Hours]   [*Maximum Marks* : 60

Note : Attempt all questions. All questions are compulsory.

SECTION 'A'

1. Attempt all parts of the following :   1×8=8

    (a) Who is the father of computers?

    (b) What is a light pen?

    (c) List any two output devices.

    (d) Write the full form of EBCDIC.

    (e) List any two internal DOS commands.

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    (f)   Convert the decimal number $(57)_{10}$ to binary number.

    (g)   Explain the term virus.

    (h)   What is router?

SECTION 'B'

Note :   Attempt any two parts of the following : $6 \times 2 = 12$

2. (a)   How many types of computer generations are these? Classify and explain them briefly.

    (b)   What is meant by an input devices? What is the importance of an input device in a computer system?

    (c)   Write short notes on the following :

        (i)   Single user multitasking operating system

        (ii)   Batch processing system

    (d)   Explain TCP/IP communication architecture in detail with the help of suitable diagram.

SECTION 'C'

Note :   Attempt all question from this section. Attempt any two question : $8 \times 5 = 40$

3. (a) Draw the block diagram of computer system and explain its main components.

   (b) What do you mean by UNIVAC? What are its features?

   (c) Convert the following decimal numbers to their equivalent octal number :

       (i) 32

       (ii) 537

       (iii) 65

       (iv) 89

       (v) 58

4. Attempt any two question :

   (a) What is the difference between a magnetic tape and magnetic disk? List the advantages and disadvantages of both.

   (b) Explain briefly the basic function of an MICR device.

   (c) Differentiate between an impact printer and a non-impact printer. Give one example of each.

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5. Attempt any two question :

   (a) What are the difference between internal and external DOS commands? Give the four examples of both types of DOS commands.

   (b) Briefly explain the function of file mangement performed by an operating system.

   (c) What is Trojan Horse? Discuss the categories of Trojan Horse.

6. Attempt any two question :

   (a) What is network topology? Explain any two network topologies through suitable examples.

   (b) Explain the different type of network media used for data communication.

   (c) Explain the term DNS. Why is it used?

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