BiharPaper.com XEV (H-II) - BCA (3)

2017

Time: 3 hours

Full Marks: 75

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer any **five** questions, selecting at least **two** from each group.

GROUP-A BiharPaper.com

- What is OSI model? Explain the functions and protocols of each layer? Compare it with TCP/IP model.
- 2. What is topology? Explain different types of topologies.
- 3. What do you mean by guided and unguided media? Explain the different types of guided and unguided media. BiharPaper.com

- What is K-Map? Design Half adder using K-Map. BiharPaper.com
- 5. Explain the following (any two):
 - (a) Circuit switching.
 - (b) Optical fibre
 - (c) E-Mail
 - (d) Duality Principle
 - (e) Half Duplex

Group - B

- What do you mean by C language? Explain the features of C language.
- 7. Explain different types of operators which are used in C language. BiharPaper.com
- 8. (a) Define switch statement. Explain it with syntax and flow-chart.
 - (b) What do you mean by array? Write a C program to demonstrate the use of an array. BiharPaper.com
- 9. (a) What is loop? Why it is necessary in the program? Write the syntax of the for Loop. Draw a control diagram of for loop.

(2)

(Turn over)

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What will be the output of the following
         program when executed:
         void main () BiharPaper.com
        int a = 5;
        clrscr();
        for (a = 1; a < = 10; a^{++})
        { }
        printf ("\na = %d", a);
        getch();
10. Write short notes on any two of the following:
    (a) Function
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- - BiharPaper.com (b) Sizeof()
 - (c) Preprocessor directive & commands
 - File pointer
 - (e) Storage classes