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XEV (H-II) – BCA (3)

2016

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
atleast two from each group.*

Group – A

1. What is computer network ? What are the advantages and disadvantages of computer network ? Explain.
2. What do you mean by guided and unguided media ? Describe about the different types of guided and unguided media.
3. What do you mean by data-transmission ? Explain about the different categories of data-transmission with example.
4. What is TCP/IP model ? Explain the functions and protocols of each layer ? Compare it with OSF model.

5. What are the different types of basic logic-gates ? Explain with the help of truth-tables and give an example of each gate

Group - B

6. What do you mean by variable and constant ? Explain about the different types of constant in C.
7. What is a function ? How is it declared in C ? What is meant by call by reference and call by value ? Explain recursive function and list its merit and demerits with example.
8. (a) What do you mean by array ? Give their characteristics features.
- (b) Illustrate the initialization of a two dimensional array with example.
9. (a) What is a loop ? Why it is necessary in the program ? Write the syntax of the while loop ? Draw a control diagram of while-loop.
- (b) What will be the output of the following program when executed :
- ```
main ()
{
int a =1, sum = 0;
clrscr ();
while (a<=10)
```

```
{
printf ("%3d", a);
sum = sum + a;
a ++;
}
printf ("\n sum of 10 numbers : %d", sum
}
```

10. Write short notes on any two of the following

- (a) URL
- (b) ISP
- (c) Features of C
- (d) Single and multidimensional array
- (e) Duality principal

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