

11. (a) Explain the components of a computer system in detail. (16)

Or

- (b) Describe the various stages involved in developing a Banking System using Program Development Cycle. (16)
12. (a) (i) Write a C program to print Fibonacci series, which terminates when the given number is reached. (10)
- (ii) State the various lexical elements supported by C language. (6)

Or

- (b) (i) Write a program that will use loops to print out the following triangle of numbers. (10)

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
6 6 6 6 6 6
```

- (ii) Differentiate continue and goto statement with a example program. (6)
13. (a) (i) Explain “passing by value”, “passing by pointer” and “passing by reference” in functions with a sample program. (12)
- (ii) Write a C program to add two matrices of order 2×2 . (4)

Or

- (b) Describe about four storage class specifiers with examples. (16)
14. (a) Write a C program to copy the contents of a file to another file. (16)

Or

- (b) Write a C program to calculate the area of any four shapes using pointers. (16)
15. (a) Write a C program to implement a stack. (16)

Or

- (b) Write a C program to implement circular queue. (16)