

# XI CA Model 2024 Answer Key Single Page (FY 146)

## ----- 1 Mark Answers----- 1 to 6 ( any 5)

- 1.CPU/Processor
- 2.Linux/Windows/Ubuntu /(Any OS Name)
- 3.Tokens
4. #
- 5.Repeater
- 6.Google/yahoo/bing/ask/(any search engine)

## ----- 2 Mark Answers----- 7 to 18 ( any 9)

7. Binary- Base 2 ,Decimal -- Base 10
- Octal- Base 8, Hexa Decimal - Base 16 (any 2)
8. **ACSI**I-American standard code  
for information interchange, 7bit code, represent characters in English keyboard (any 2 point)
- 9.Mouse,Keyboard ,Light Pen,Joystick  
(or any 4 input device names)
- 10.a)**coding**: Writing program instruction using HLL,  
(b)**Translation**:Convert HLL to machine language
11. 'a' : character literal,  
"a" : string literal
- 12.**IDE**-integrated Development environment /Definition.(1 mark) Eg: Geany (1 mark)
- 13.**Unary** :Operator with Single operand  
Eg: ++ , -- , unary + ,unary -
- 14.i++ ,++i, i=i+1, i+=1 (any 2)
15. i=1;  

```
while(i<=100)
{
    cout<<i;
    i++;
}
```

- 16.a)**FTP**:File Transfer protocol/definition
- b) **DNS**: Domain Name System /Definition
- 17.**Any 2** topology diagram (**star,bus,ring,mesh**)
18. leads to automation of govt services, strengthens the democracy ,more transparency , saves unnecessary visits,(or any2 valid)

## ----- 3 Mark Answers----- 19 to 29 ( any 9)

- 19.**Functional block diagram** with **Input Unit, CPU,Storage, Output Unit**
- 20.RAM-Random Access memory,temporary,fast , volatile,stores temp OS and programs data.
- ROM**: Read only,non volatile,slow,store boot info.
- 21.a.syntax error  
    b.Logical error  
    c.Run time error
22. Any thee flowchart symbols (start/stop,input/output, process, decision,flow lines,connector etc)

23. **Cascading** : continuous use of input/output

Operators in I/O statement

eg: `cin>>a>>b>>c;`  
`cout<<"sum is"<<a+b+c;`

24.Note on **any three datatypes** (int,float,void,char,double)

25.a. Convert one datat type to another is type conversion

b) **Implicit(compiler it self) ,Explicite (by programmer)**

26. `#include <iostream>`

```
using namespace std;
int main()
{   int a,b,c, sum;
    float avg;
    cout<<"Enter three numbers: ";
    cin>>a>>b>>c;
    sum=a+b+c;
    avg=sum/3.0;
    cout<<"Sum of numbers = "<<sum;
    cout<<" average = "<<avg;
}
```

27. Computer Viruses, Hacking ,Phishing, Denial of Service, Man in the middle (or any 3 with explanation)

28. email advantages : Fast ,Easy ,Attachment, Environment Friendly ,Any where Any time (or any 3 valid points)

29.E-Book Reader , E-Text, Educational TV Channels Online Chat ,E Content( or any 3 valid names/applications)

## ----- 5 Mark Answers----- 30 to 32 ( any 2)

30.a. Language processor:It translates programs written in high level language or assembly language into its equivalent machine language. (2)

b. **Assembler**: It converts assembly language into machine language.

**Interpreter**: It converts a high level language program into machine language line by line.

**Compiler**: It converts the whole high level language program into machine language at a time. (3)

31. a. initialisation ,test condition ,updation, body of loop ( 2 mark)

<b>b. Entry controlled loop</b>	<b>Exit controlled loop</b>
1. condition before loop body	1. condition after loop body
2. loop will run only if condition is true	2. loop will run at least once even condition false eg: do while

32. a. Modem converts digital signal to analog and vice versa (1)  
b. MAC Address (1)  
c. Resource sharing , Communication, Reliability, Price-performance ratio , Scalability (3)