**1.** Which statement is true:

A) All canonical form are standard form
B) All standard form are canonical forms
C) Standard form must consists of minterms
D) Canonical form can consist of a term with a literal missing

**Answer:**

**2.** Which symbol is used to create multiple inheritance?

A) Dot
B) Comma
C) Dollar
D) None

**Answer: B**

**3.** Which-one of the following statements about normal forms is FALSE?

A) BCNF is stricter than 3NF
B) Lossless, dependency-preserving decomposition into 3NF is always possible
C) Lossless, dependency-preserving decomposition into BCNF is always possible
D) Any relation with two attributes is in BCNF

**Answer: C**

**4.** While overloading binary operators using member function, it requires ___ argument/s.

A) Zero
B) One
C) Two
D) Three

**Answer: B**

**5.** Who is responsible for keeping database in consistent state despite system failure?

A) End user
B) Content developer
C) Transaction manager
D) Storage manager

**Answer: C**

**6.** Why can a CMOS IC be used as both a multiplexer and a demultiplexer?

A) It cannot be used as both
B) CMOS uses bidirectional switches
C) CMOS uses unidirectional switch
D) CMOS is used for different purpose

**Answer: B**

**7.** Why is a demultiplexer called a data distributor?

A) The input will be distributed to one of the outputs.
B) One of the inputs will be selected for the output.
C) The output will be distributed to one of the inputs.
D) Demultiplexer

**Answer: A**

**8.** Why is the Gray code more practical to use when coding the position of a rotating shaft?

A) All digits change between counts
B) Two digits change between counts
C) Only one digit changes between counts
D) None of the mentioned

**Answer: C**

**9.** Why would you want to use inline functions?

A) To decrease the size of the resulting program
B) To increase the speed of the resulting program
C) To simplify the source code file
D) To remove unnecessary functions

**Answer: B**

**10.** With regard to a D latch, _____.

A) The Q output follows the D input when EN is LOW
B) The Q output is opposite the D input when EN is LOW
C) The Q output follows the D input when EN is HIGH
D) The Q output is HIGH regardless of EN's input state

**Answer: C**

**11.** without the carry bit if add the numbers 1 and 1 what will be the output?

A) 1
B) 0
C) Error
D) None of the above

**Answer:**

**12.** Working set model for page replacement is based on the assumption of

A) Modularity
B) Locality
C) Globalization
D) Random access

**Answer: B**

**13.** Write the output of the following :

```
#include <iostream.h>
int main()
{
    const int x;
    x = 10;
    printf("%d", x);
    return 0;
}
```

A) 0
B) 10
C) Compile time error
D) Runtime error

**Answer:**

**14.** Write the output of the following program.

```
class Test
{
        int x;
};
int main()
{
        Test t;
        cout << t.x;
        return 0;
}
```

A) 0
B) Some garbage value
C) Compile time error
D) 1

**Answer:**

**15.** Write the output of the following

```
#include <iostream>
using namespace std;
class B;
class A
{
        int a;
        public:
        A():a(0) { }
        void show(A& x, B& y);
};
class B
{
        private:
        int b;
        public:
        B():b(0) { }
        friend void A::show(A& x, B& y);
};
void A::show(A& x, B& y)
{
        x.a = 10;
        cout << "A::a=" << x.a << " B::b=" << y.b;
}
int main()
{
        A a;
        B b;
        show(a,b);
        return 0;
}
```

A) Compile error
B) A::a=10 B::b=0
C) A::a=0 B::b=0
D) None

**Answer: B**

**16.** X+0=0+X =X is an example of
A) Commutative property
B) Inverse property
C) Associative property
D) Identity element

**Answer:**

**17.** ……defines the structure of a relation which consists of a fixed set of attribute-domain pairs.
A) Instance
B) Schema
C) Program
D) Super key

**Answer: B**