



UTC Aerospace Systems Technical Questions

Q1. DML is provided for

- (A) Description of logical structure of database.
- (B) Description of logical structure of database.
- (C) Manipulation & processing of database.
- (D) Definition of physical structure of database system.

ANS: (C)

Q2. What is data integrity?

Q3. The keyword to eliminate duplicate rows from the query result in SQL is

Q4. What will be the output of the program?

```
#include  
int main()  
{  
const int x=5;  
const int *ptrx;  
ptrx = &x;  
*ptrx = 10;  
printf("%d ", x);  
return 0;  
}
```

- a. 5
- b. 10
- c. Error
- d. Garbage value

ANS: C

Q5. What will be output when you will execute following c code?

```
#include  
void main(){  
char arr[7]="Network";  
printf("%s",arr);  
}
```

- a. Network
- b. N
- c. Garbage Value
- d. Compilation error

ANS: C

Q6. What is the similarity between a structure, union and enumeration?

- A. All of them let you define new values
- B. All of them let you define new data types
- C. All of them let you define new pointers
- D. All of them let you define new structures

ANS: B

Q7. What is the default subnet mask for a class C network?

- A. 127.0.0.1
- B. 255.0.0.0
- C. 255.255.0.0
- D. 255.255.255.0

ANS: D



Q8. Which of the following TCP/IP protocol is used for transferring electronic mail messages from one machine to another?

- A. FTP
- B. SNMP
- C. SMTP
- D. RPC

ANS: C

Q9. Which of the following is the address of the router?

- A. The IP address
- B. The TCP address
- C. The subnet mask
- D. The default gateway

ANS: D

Q10. FDDI is a

- A. ring network
- B. star network
- C. mesh network
- bus based network

ANS: A

Q11. Fragmentation of the file system

- A. occurs only if the file system is used improperly
- B. can always be prevented
- C. can be temporarily removed by compaction



- D. is a characteristic of all file systems
- E. None of the above

ANS: (C)

Q12. Which is a permanent database in the general model of compiler?

- A. Literal Table
- B. Identifier Table
- C. Terminal Table
- D. Source code
- E. None of the above

ANS: (C)

Q13. Swapping

- A. works best with many small partitions
- B. allows many programs to use memory simultaneously
- C. allows each program in turn to use the memory
- D. does not work with overlaying
- E. None of the above

ANS: (C)

Q14. Which scheduling policy is most suitable for a time-shared operating system

- A. Shortest-job First.
- B. Elevator.
- C. Round-Robin.
- D. First-Come-First-Serve.

ANS: C



Q15. Semaphores

- a) synchronize critical resources to prevent deadlock
- b) synchronize critical resources to prevent contention
- c) are used to do I/O
- d) are used for memory management

ANS: A

Q16. PHP is a widely used --- scripting language that is especially suited for web development and can be embedded into html

- A. Open source general purpose
- B. Proprietary general purpose
- C. Open source special purpose
- D. Proprietary special purpose

ANS: A

Q17. Which of the following functions require the allow-url-fopen must be enabled?

- A. include()
- B. require()
- C. both of above
- D. None of above

ANS: C

Q18. The feature in object-oriented programming that allows the same operation to be carried out differently, depending on the object, is_____

- A. inheritance
- B. polymorphism

- C. overfunctioning
- D. overriding

ANS: B

Q19. Examine the following program and determine the output

```
#include
using namespace std;
int operate (int a, int b)
{
return (a * b);
}
float operate (float a, float b)
{
return (a/b);
}
int main()
{
int x=5, y=2;
float n=5.0, m=2.0;
cout << operate(x,y) <<" ";
cout << operate (n,m);
return 0;
}
```

- A. 10.0 5.0
- B. 5.0 2.5
- C. 10.0 5
- D. 10 2.5

ANS: D

Q20. Find out the error in following block of code.

If (x = 100)



cout << x is 100;

- A. 100 should be enclosed in quotations
- B. There is no semicolon at the end of first line
- C. Equals to operator mistake
- D. Variable x should not be inside quotation

ANS: C

Q21. Which of the following components of the .NET framework provide an extensible set of classes that can be used by any .NET compliant programming language?

- A. .NET class libraries
- B. Common Language Runtime
- C. Common Language Infrastructure
- D. Component Object Model

ANS: A

Q22. Which of the following security features can .NET applications avail?

1. PIN Security
2. Code Access Security
3. Role Based Security
4. Authentication Security
5. Biorhythm Security

- A. 1, 4, 5
- B. 2, 5
- C. 2, 3
- D. 3, 4

ANS: C

Q23. How many levels of compilation happens in .NET Framework?

- A. One
- B. Two
- C. Three
- D. Four

ANS: B

Q24.. For the code snippet shown below, which of the following statements are valid?

```
public class Generic
{
    public T Field;
    public void TestSub()
    {
        T i = Field + 1;
    }
}
class MyProgram
{
    static void Main(string[] args)
    {
        Generic gen = new Generic();
        gen.TestSub();
    }
}
```

- A. Addition will produce result 1.
- B. Result of addition is system-dependent.
- C. Program will generate run-time exception.
- D. Compiler will report an error: Operator + is not defined for types T and int.

ANS: D

Q25. What will be the output of the program?

```
public class SqrtExample
{
    public static void main(String [] args)
    {
        double value = -9.0;
        System.out.println( Math.sqrt(value));
    }
}
```

- A. 3.0
- B. -3.0
- C. NaN
- D. Compilation fails.

ANS: C

Explanation:

The `sqrt()` method returns NaN (not a number) when its argument is less than zero.