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Wish you all the Best !!!

- 21) What is the value of g ?
- a) 6
b) 4
c) 8
d) None of these
- 22) what is the value of b ?
- a) 7
b) 8
c) 6
d) cannot be determined
- 23) Raj bought a clock for Rs. 600. Later he sold it to a friend for Rs.700 and after two months bought it back for Rs.800.Later she sold it to another friend at Rs.900. Raj's profit from the whole transaction was
- a) Rs. 300
b) Rs. 100
c) Rs. 400
d) Rs. 200
- 24) A train is traveling at the speed of 96 km/hr. It takes 3 s to enter a tunnel and 30 s more to pass through it completely. What is the length of the train?
- a) 60 m
b) 80 m
c) 100 m
d) 120 m
- 25) Ram is twice as old as Rahim was when Ram was as old as rahim is now. And the combined age of Ram and Rahim is 210 years. What is Ram's age now?
- a) 120
b) 90
c) 60
d) 80
- 26) A cistern can be filled by two pipes in 30 an 40 min, respectively. Both the pipes were turned on at the same moment, but after some time the first was turned off and the cistern was filled in 10 min more. How long after the pipes have been turned on, the first one was turned off?
- a) 11 min
b) $12 \frac{1}{3}$ min
c) $12 \frac{6}{7}$ min
d) $13 \frac{1}{7}$ min
- 27) Between 100 and 300 how many numbers begin or end with 2 ?
- a) 120
b) 20
c) 110
d) 119
- 28) The area of a right-angled triangle is 40sq cm and its perimeter is 40 cm. The length of its hypotenuse is
- a) 16 cm
b) 18 cm
c) 17 cm
d) Data insufficient

29) If $x^*(x-y) = x^2 + y^2$, find $(7*5)*1$.

a) 5477

b) 5531

c) 5513

d) 5623

30) It is known that two out of ten items manufactured are defective. Then the probability that an inspector inspecting the items, one by one, will find the defective items consecutively is

a) $\frac{1}{45}$

b) $\frac{1}{10}$

c) $\frac{1}{5}$

d) $\frac{2}{5}$

□ □ □

Section 2 : English

Directions for questions 1 to 3: Given below are two sentences 1 and 6 and four sentences A, B, C & D jumbled between them. Choose the option that denotes the proper sequences A, B, C and D between 1 and 6 whose positions are kept fixed.

- 1) 1. Unfortunately this is, and it all stems from, the way recruitment companies work.
- A. The first is retained by employers to find specific people for specific Jobs.
 - B. They are the consultants who advertise in this newspaper.
 - C. The other type of recruitment company - or agency to be precise - works on a contingency basis
 - D. They are essentially two types.
6. They are paid by the employer only when someone is actually appointed.
- a) ABCD b) DABC c) BCDA d) DBAC
- 2) 1. A management consultant could hardly have hyped banking on a better platform for a national bank.
- A. Choose as a brand a friendly, geographically vague sort of name.
 - B. For fund archive Management, emphasize a product that benefits from scale mutual funds.
 - C. Begin In a small town.
 - D. Expand via acquisitions, as regulations discouraging them are relaxed.
6. Buy a corporate bank and a dedicated credit-card operation.
- a) CADB b) CDAB c) BCAD d) DBCA
- 3) 1. One of the sad consequences of the death of the telegram was the disappearance of brevity as a communications skill. '
- A. Because part of the cost of sending a telegram was a charge per word, senders grew ingenious at finding ways to write economically.
 - B. "Why unnews?" "Unnews good news." "Unnews unjob."
 - C. Journalists, for example, prefixed words with "un" to mean "not"
 - D. Thus went a famous exchange between a foreign editor and a lazy correspondent.
6. Now, brevity is reviving, in an unexpected quarter: the mobile telephone.
- a) DBAC b) CDBA c) ACDB d) BACD

Directions for questions 4 to 7 : Complete the sentences given below with the appropriate choice.

- 4) Omega redefined the basic principle of the mechanical watch which ____.
- a) remained unchanged for over 200 years
 - b) had remained unchanged for over 200 years
 - c) remain unchanged for 200 years
 - d) remained unchanged up to 200 years
- 5) The planet's biggest rock star is ____.
- a) on a mission to make a difference
 - b) a missionary with a difference
 - c) on a mission to make differences
 - d) of a mission to make a difference
- 6) ____ took a vicious turn as well-armed rebels massacred government forces.
- a) The six-year old battle against Maoist insurgent
 - b) The six-year old battle for Maoist insurgents
 - c) The six-years old battle against Maoist insurgents
 - d) The six-year old battle against Maoist insurgents
- 7) The second half of the Winter Games ____.
- e) were packed with upsets, comebacks and excitement
 - f) was packed with upsets, comebacks and excitements
 - g) was packed with upsets, comebacks and excitement
 - h) were packed with upset, comeback and excitement

Direction for questions 8 to 11: In each of the following sentences, apart of the sentence is underlined. Beneath each sentence, four different ways of phrasing the underlined part are indicated. Choose the best alternative from among the four.

- 8) I think Mukesh had something very useful to say,. however, he was unable to communicate his point of view to a sceptical audience.
- a) the audience was willing to accept his ideas
 - b) he failed to convince a suspicious congregation.
 - c) he could not convince the doubting audience
 - d) he did not change the minds of a very knowledgeable public in attendance.
- 9) British Aerospace had been focusing on building European links.
- a) concentrating on creating European links
 - b) stressing on building European links
 - c) focusing on forging European links
 - d) pursuing ways of building European connectivity

- 10) This article is a continuation of the series on new projects under planning and implementation in India.
- serial on new project planned and implemented in India
 - series on new efforts being planned and implemented in India
 - series on new projects to be planned and implemented in India
 - series on new projects under planning and implementation in India
- 11) Compassion means that we do not play the game of hypocrisy or self-deceiving.
- hypocrites and self-deceiving
 - hypocrites who are self-deceivers
 - hypocrisy or self-deception,
 - self-deceivers who are not hypocrites

Direction for questions 12 to 14 : Arrange the sentences A, B, C and D to make a logical paragraph.

- 12)
- So far, not only thousands of prisoners in New Delhi's Tihar) jail, but also 3,681 Delhi policemen/ women have participated in a 10-day Vipassana meditation course.
 - Goenka told the businessmen/women that spirituality is "when cruelty changes into compassion, when hatred changes into love, when selfishness changes into selflessness, when ill will changes into good will".
 - New Delhi Police Academy IG Kiran Bedi told about policing one-self before policing Others and showed an inspiring new film (not yet released) about transformation through meditation.
 - Also participating as a speaker was S.N. Goenka from India, who is a world-renowned Vipassana meditation teacher, working with Bedi-
- a) ABCD b) BCDA c) CDAB d) ABDC

- 13)
- Meanwhile, the service providers are still baffling with business models and looking at the ways and means of charging" customers.
 - The Internet Service Providers Association of India (ISPAI) secretary Amitabh Singhal has already urged members not to initiate a price war for short-term gains.
 - These service providers are now banking on the internet telephony services to rake in higher revenues.
 - ISPs are struggling with low revenues from retail customers.
- a) ABCD b) BCDA c) CDAB d) ABDC

14)

- A. Picture the scene at the Shah Alam camp.
- B. The range of issues which have figured in the parliamentary debate on Gujarat is bewildering.
- C. From accusations that Sonia Gandhi was chewing gum to assertions that Indians were like ghee until pseudo-secularists turned them into dalda, our parliamentarians did what they do best - avoid addressing the most horrifying aspects of the situation.
- D. In the present case, it is the appalling conditions in the refugee camps where thousands of people have been herded together for over two months.

- a) ABCD b) BCDA c) CDAB d) ABDC

Direction for questions 15 to 19 : Mark the choice where the two statements are logically consistent with the statement given in the main statement.

15) When I do not dance, I sing.

- A. I did not dance B. I danced
- C. I did not sing D. I sang

- a) AC b) CA c) AD d) DC

16) He drives either fast or slow.

- A. He did not drive fast B. He drove fast
- C. He drove slow D. He did not drive slow

- a) AB b) CD c) AC d) BC

17) He makes a mistake every time he sleeps.

- A. He did not sleep. B. He made a mistake.
- C. He did not make a mistake. D. He slept.

- a) CA b) BD c) AC d) BA

18) Joe is neither bright nor dull.

- A. Joe is bright. B. Joe is not bright.
- C. Joe is dull D. Joe is not dull

- a) AD b) CA c) CD d) BD

19) He wears red only on Saturdays.

- A. It is Sunday B. It is Saturday
C. He wore red. D. He did not wear red.

- a) AC b) AD c) BD d) BC

Direction for questions 20 to 24 : In the following questions, a sentence is split into four parts, mark the part that has a grammatical error.

20)

- a) Neither America b) or Europe
c) is that eager d) to press the button

21)

- a) The countries present b) at Bonn was
c) probably working with d) good intentions

22)

- a) Miuccia Prada is b) The Italian designer
c) who turned her family business into d) a globe fashion empire

23)

- a) Fluent in b) four languages,
c) he think and writes d) about architecture in English

24)

- a) The best b) idea can
c) come from the d) newest persons

Direction for questions 25 to 26: The following questions are based on verbal analogies. For each question, select the alternative that exhibits a SIMILAR relationship as shown by the question pair.

25) Sneer: Contempt

- a) Grimace : Pain b) Snarl : Restlessness
c) Mourn : Frustration d) Quick : Rapid

26) Soldier : Regiment

- a) Flower : Bunch b) Drop : Ocean
c) Sailor : Crew d) Deer : Jungle

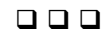
Direction for questions 27 to 30: Choose the odd word out,

27) a. Chutzpah b. Nervous c. Effrontery d. Cheek

28) a. Laconic b. Brief c. Explanatory d. Succinct

29) a. Obliterate b. Efface c. Construe d. Raze

30) a. Esoteric b. Exigent c. Occult d. Mystical



14) Statement:

Interview conducted for selecting people for jobs should measure personality characteristics of candidates.

Assumptions:

- I. Performance on the job depends on personality characteristics.
- II. Personality characteristics can be measured in interview.

15) Statement:

An opportunity to carry out reforms in elections to the parliament and State Legislatures has been lost when we rejected most of the recommendations of Goswami Committee for partisan reasons.

Assumptions:

- I. Goswami Committee made certain good recommendations to improve the existing election system.
- II. Most of the decisions in our country are taken with partisan considerations.

Directions for Question 16-24 : Some friends are sitting on a bench. Sunil is sitting next to Sunita and Sanjoy is next to Bindu. Bindu is not sitting with Sumit. Sumit is on the left end of the bench and Sanjoy is on second position from right hand side. Sunil is on the right side of Sunita and to the right side of Sumit. Sunil and Sanjoy are sitting together.

Based on the above sitting arrangements select the correct alternatives out of the five given in the following questions.

16) Sunil is sitting between

- a) Sunita and Sanjoy
- b) Sunita and Bindu
- c) Sanjoy and Sumit
- d) Bindu and Sanjoy

17) Who is sitting in the centre?

- a) Sunil
- b) Sanjoy
- c) Sunita
- d) Bindu

18) Sanjoy is sitting in between

- a) Bindu and Sunita
- b) Sunil and Sumit
- c) Sunita and Bindu
- d) Sunil and Bindu

19) Sumit is sitting on the

- a) Second place from right
- b) Second place from left
- c) Extreme left
- d) Extreme right

20) Bindu is sitting on the

- a) Extreme right side
- b) Extreme left side
- c) Second from left side
- d) Third from left side

29) 12 32 72 152 ? 632

a) 515

b) 613

c) 815

d) 312

30) Find the odd word out

a) Cotton

b) Terene

c) Silk

d) Wool



Section 4 : C and C++

Q.1 Select the correct option from the given choices.

(Assume all the code are executed in TCC (Dos Environment))

1) int main()

```
{
    int x=3,y,z;
    y = x = 10;
    z = x < 10;
    printf("\nx = %d y = %d z = %d",x,y,z);
    return 0 ;
}
```

a) x = 10 y = 10 z = 0

b) x = 3 y = 10 z = 1

c) x = 10 y = 1 z = 0

d) error

2) void fork()

```
{
    printf("I am in the function\n");
    fork();
}
int main()
{
    fork();
    return 0 ;
}
```

a) error

b) I am in function

c) Infinite loop

d) One cannot call a function returning void recursively

3) int main()

```
{
    int arr[] = { 'a','b','c','d'};
    int i;
    for(i=0;i<=3;i++)
        printf("\n%d",arr[i]);
    return 0 ;
}
```

a) 97 98 99 100

b) error

c) a b c d

d) None of the above

```
4) int main()
{
    int i=1;
    switch( i - 2)
    {
        case -1:
            printf("\nThis is not possible");
        case 0:
            printf("\nThis is false");
        default:
            printf("\nThis is true");
    }
    return 0 ;
}
```

- a) This is not possible
This is false
This is true
- b) This is not possible
- c) This is true
- d) Compile time error

```
5) int main()
{
    if ((1&&0)|| (!(0 && 1)))
        printf("OK I have passed");
    else
        printf("OK I have failed");
    return 0 ;
}
```

- a) Compile Error
- b) OK I have passed
- c) OK I have failed
- d) None of the above

```
6) #define CUBE(x) (x * x * x)
int main()
{
    int a,i=3;
    a = CUBE(i++);
    printf("\n%d,%d",a,i);
}
```

- a) 64,5
- b) 27,6
- c) 36,3
- d) none of the above

```
7) int main()
    {
    int a = 5;
    while(a)
    {
        a--;
        if(a == 3)
            continue;
        printf("\nHi I am inside");
    }
    return 0;
}
```

- a) Hi I am inside(prints 5 times) b) Hi I am inside(prints 3 times)
c) does not print anything. d) Hi I am inside(prints 4 times)

8) Which of the following is true about a pointer

- a) pointers can be used in all places where arrays are used
b) no arithmetic operation on pointer is allowed other than ++,--
c) array of pointers is a collection of addresses.
d) pointer is used as formal parameter when actual parameters are passed by value.

9) What is true about storage classes

- i) The scope of static variables is the function in which it is declared.
ii) auto variables are initializes to zero
iii) The initial value of register variables is zero.
iv) The extern variable remains in the memory for the entire program

- a) i , iii, iv b) i and iv
c) I, ii, iii d) None of the above

```
10) int x = 10;
int main()
{
    int x = 20;
    printf("%d",x);
    return 0 ;
}
```

- a) 10 b) 20
c) garbage d) none of the above

```
11) int main()
{
    int arr[10]={1,2,3,4};
    printf("%d,%d",*(arr+1),5[arr]);
    return 0;
}
```

- a) 2,0
- b) compile time error
- c) 2,garbage
- d) error

12) What will be the output of the following program.

```
int main()
{
    int k;
    k=printf("C for ") + printf("Beginners");
    printf("%d",k);
    return 0;
}
```

- a) Compile Error
- b) C for Beginners
- c) C for Beginners 15
- d) C for 6

```
13) int main()
{
    struct xx
    {
        int x=3;
        char name[]="hello";
    };
    struct xx *s;
    printf("%d",s->x);
    printf("%s",s->name);
    return 0;
}
```

- a) 3 hello
- b) Compiler Error
- c) Linker Error
- d) None of the above

```
14) int main()
{
    extern int i;
    i=20;
    printf("%d",i);
    return 0;
}
```

- a) 20
- b) Compiler Error
- c) Linker Error
- d) None of the above

15) int main()

```
{
    char *str1="abcd";
    char str2[]="abcd";
    printf("%d %d %d",sizeof(str1),sizeof(str2),sizeof("abcd"));
return 0;
}
```

a) 2 5 5

b) 2 2 5

c) 5 5 5

d) 4 4 4

16) int main()

```
{
    static int i=5;
    if(--i){
        main();
        printf("%d ",i);
    }
return 0;
}
```

a) 4 3 2 1

b) 0 0 0 0

c) Error: Cannot call main() within main()

d) None of the above

17) int main()

```
{
    int i=10,j=20;
    j = i, j?(i,j)?i:j;
    printf("%d %d",i,j);
return 0;
}
```

a) 10 20

b) 10 10

c) 20 20

d) Can't Say

18) What will be the output of the following program

```
int main()
{
    struct emp {
        char name[20];
        int age;
        float sal;
    };
    struct emp e={"kishor"};
    printf("%s %d %f",e.name,e.age,e.sal);
}
```

a) kishor 0 0.0000000

b) kishor garbage garbage

c) compile time error – partial initialization of structure variable is not allowed

d) runtime error


```
26) int main()
{
    int k=35,*z,*y;
    z=&k; /*Assume address of k is 1000*/
    y=z;
    *z++=*y++;
    k++;
    printf("%d %u %u",k,z,y);
return 0 ;
}
```

Assume the address of variable k as 1000.

What will be printed when the above code is executed?

- a) 35 1004 1004
- b) 36 1002 1002
- c) 37 1004 1004
- d) None of the above

```
27) int main()
{
    int x[] = { 1, 4, 8, 5, 1, 4 };
    int *ptr, y;
    ptr = x + 4;
    y = ptr - x;
    printf("%d",y);
return 0;
}
```

What is the value of y?

- a) -3
- b) 0
- c) 4
- d) 4 + sizeof(int)

```
28) int main()
{
    FILE *fptr;
    fptr=fopen("Abcd.txt","w");
return 0;
}
```

If file is not present then fopen returns

- a) NULL
- b) create new Abcd.txt and return pointer to that file
- c) runtime error
- d) none of the above

29) What is char *const myPointer?

- a) Is a non constant pointer to constant data
- b) Is a constant pointer to non constant data.
- c) Is a constant pointer to constant data.
- d) None of these.

30) The following function is written in class ABC.

```
friend void operator << (ostream&, ABC&);
```

The above will work for

- a) `cout<<a1<<endl;`
- b) `cout<<a1<<a2<<endl;`
- c) both a and b
- d) `cout<<c1;`

31) class Sample

```
{
public:
    int *ptr;
    Sample(int i)
    {
ptr = new int;
*ptr=i;
    }
    ~Sample()
    {
        delete ptr;
    }
    void PrintVal()
    {
cout << "The value is " << *ptr;
    }
};
void SomeFunc(Sample x)
{
cout << "Say i am in someFunc " << endl;
}
int main()
{
Sample s1= 10;
SomeFunc(s1);
s1.PrintVal();
}
```

- a) Say i am in someFunc
The value is 10
- b) Compile Time Error
- c) Run Time Error : Assertion Failure
- d) No Output

32) Which is the parameter that is added to every non-static member function when it is called?

- a) const int
- b) const *int
- c) this pointer
- d) no parameter is passed

33) class base

```
{
public :
    void out() {
        cout<<"base ";
    }
};
class deri{
public :
    void out() {
        cout<<"deri ";
    }
};
void main()
{
    deri dp[3];
    base *bp = (base*)dp;
    for (int i=0; i<3;i++)
        (bp++)->out();
}
```

- a) base base base
- b) base deri deri
- c) base base
- d) Compile time error

34) Which statement is true of "pure virtual" functions?

- a) They force you to derive another class from the base class which contains the function
- b) They contain no code
- c) Neither of these
- d) Both a and b

35) class A {

```
public:
A() {
    if(x > 1)
        throw "x overflow";
    else
        x++;
}
private:
    static int x;
};
int A::x;
```

Referring to the sample code above, which one of the following statements is correct?

- a) The class can be instantiated twice without throwing an exception.
- b) The class can be instantiated once without throwing an exception.
- c) Class A can be instantiated as many times as desired without throwing an exception.
- d) Class A can never be instantiated without throwing an exception.

```
36) class A {
    public:
        virtual void display() { cout<<"In A...."<<endl; }
};
class B : public A {
    public:
        void display() { cout<<"In B...."<<endl; }
};
class C : public B {
    public:
        void display() { cout<<"In C...."<<endl; }
        void print() {cout<<"Print Specific function....."<<endl; }
};
int main() {
    A *aptr;
    aptr=new B;
    aptr->display();
    delete aptr;
    aptr=new C;
    aptr->print();
return 0;
}
```

- a) In B....
Print Specific function
- b) In A....
Print Specific function
- c) Compile Time Error
- d) Linking Error

```
37) class Foo {
    int i;
    public:
        Foo(int x) : i(x) { }
};
```

- 1) `Foo *f = new Foo;`
- 2) `Foo &f = new Foo(1);`
- 3) `int i = Foo::i;`
- 4) `const Foo &af = Foo(1);`

Referring to the sample code above, which one of the numbered lines of code is legal C++?

- a) Line 1
- b) Line 2
- c) Line 3
- d) Line 4

```
38) class Parent {
public:
Parent () { Status (); }
virtual ~Parent () { Status (); }
virtual void Status () { cout << "Parent "; }
};
class Child : public Parent {
public:
Child () { Status (); }
virtual ~Child () { Status (); }
virtual void Status () { cout << "Child "; }
};
int main () {
Child c ;
return 0 ;
}
```

Assuming that all the necessary standard headers have been included and the necessary using-directives have been made, what will be the output of the sample code above?

- a) Child Child Child Child
 - b) Parent Parent
 - c) Child Child
 - d) Parent Child Child Parent
- 39) Assuming that a file contains 10 records of students. Which of the given statements can be used to read the 7th record of the file?
- a) `file.seekg(10,ios::beg);`
`file.read((char*)&stud,sizeof(student));`
 - b) `file.seekg(-3,ios::end);`
`file.read((char*)&stud,sizeof(student));`
 - c) `file.seekg(sizeof(stud)*6,ios::beg);`
`file.read((char*)&stud,sizeof(student));`
 - d) `file.seekg(sizeof(stud)*7,ios::beg);`
`file.read((char*)&stud,sizeof(student));`
- 40) static member functions and friend functions are similar in
- a) They do not receive this pointer
 - b) They have direct access to all private data members.
 - c) Both a and b are true.
 - d) None of above.



Section 5 : A. Java

1) What is the output of the following program

```

class ExceptionClass1 extends Error {
    public String toString() {
        return "ExceptionClass1";
    }
}
class ExceptionClass2 extends Exception {
    public String toString() {
        return "ExceptionClass2";
    }
}
public class ExceptionClassesTest {
    private static final int CLASS1 = 10;
    private static final int CLASS2 = 20;
    public static void main( String[] args ) {
        int param = Integer.parseInt(args[0]);
        try {
            exceptionClassTest( param );
        }
        catch(Throwable t) {
            System.out.println("" + t);
        }
    }
    public static void exceptionClassTest(int param) throws ExceptionClass2 {
        try {
            if( param == CLASS1 ) throw new ExceptionClass1();
            if( param == CLASS2 ) throw new ExceptionClass2();
        }
        catch( Exception ex ) {
            System.out.println("" + ex );
            throw (ExceptionClass2)ex;
        }
    }
}
main()
{
    int i = 5;
    printf("%d\n", i++ * i--);
}

```

If you compile the above program and do the following, what is the output ?

- 1) java ExceptionClassesTest 10
- 2) java ExceptionClassesTest 20
- 3) java ExceptionClassesTest 30

- a) Cannot do the above because the program will give compilation error 'unreported exception java.lang.ExceptionClass1; declared to be thrown'
- b) ExceptionClass1(twice), ExceptionClass2 (twice), No output
- c) ExceptionClass1(once), ExceptionClass2(twice), No output
- d) Cannot do the above because the program will give compilation error 'incompatible types found : ExceptionClass1, required: java.lang.Throwable'

- 2) When trying to establish a JDBC connection, it fails with the message "Driver not found". This is due to
- The DriverManager class is not found
 - The JDBC driver is not registered
 - The JDBC driver does not exist in the CLASSPATH
 - The Connection class is not found

```
3) public class Select {
    public static void main (String args[]) {
        String url = "jdbc:oracle://Carthage.imaginary.com/ora";
        Connection con = null;
        try {
            String driver = "com.imagiary.sql.oracle.OracleDriver";
            Class.forName(driver).newInstance();
        }
        catch (Exception e) {
            System.out.println("Failed to load Oracle Driver.");
            return;
        }
        try {
            con = DriverManager.getConnection(url, "borg", "");
            Statement select = con.createStatement();
            ResultSet result = select.executeQuery("SELECT DATE_OF_JOINING from EMP");
            While (result.next()) {
                System.out.println("The date of joining is " + result.getString(1));
            }
        }
    }
}
```

Note: the column DATE OF JOINING is not null and it always has a value.

What would be the output of this code?

- This code does not compile
 - "The date of joining is 01-JUN-1999". (The sample date fetched by the SQL stmt)
 - The code complies but results in run-time exception
 - "The date of joining is ". (The date is null)
- 4) As far as handling null values in JAVA and SQL is concerned which of the following statements is wrong?
- For Java Objects SQL NULL maps to JAVA NULL
 - While using the method getInt(), the JAVA NULL maps the SQL NULL
 - a Java ResultSet has no way of representing a SQL NULL value for any numeric SQL column
 - Call to getInt() could return some driver attempt at representing NULL, most likely 0.

- 5) As per the JDBC Specification for SQL to Java Datatype Mappings, which of the following statements is correct?
- The SQL datatype FLOAT maps to the Java datatype float
 - The SQL datatype FLOAT maps to the Java datatype long
 - The SQL datatype FLOAT maps to the Java datatype double
 - The SQL datatype FLOAT maps to the Java datatype int
- 6) Which of the following is not valid array declarations/definitions?
- `int iArray1[10];`
 - `int iArray2[];`
 - `int iArray3[] = new int[10];`
 - `int []iArray5 = new int[10];`
- 7) As per the JDBC Specification for Java to SQL Datatype Mappings, which of the following statements is correct?
- The Java datatype float maps to the SQL datatype REAL
 - The Java datatype float maps to the SQL datatype DOUBLE
 - The Java datatype float maps to the SQL datatype INTEGER
 - The Java datatype float maps to the SQL datatype SMALLINT
- 8) Which of the following is a legal return type of a method overloading the following method:
`public void add(int a) { }`
- Void
 - int
 - Can be anything
 - short
- 9) Which of the following is not one of the methods for the class DriverManager?
- `static public synchronized Connection getConnection (String url, Properties info) throws SQLException`
 - `static public synchronized Connection getConnection (String url, Strng user, String password) throws SQLException`
 - `static public synchronized Connection getConnection (String url) throws SQLException`
 - `static public synchronized Connection getConnection (String url, Strng user, String password, Properties info) throws SQLException`
- 10) Which of the following is false with respect to updateable result sets
- The select should pertain to a single table and should include the primary key columns
 - JDBC drivers are not required to support updateable result sets
 - If the driver does not support updateable result set, it will always throw an exception
 - If the driver does not support updateable result set, it will issue a SQLWarning and assigns the result set to a type it can support.
- 11) Which of the following is not true about `jsp:forward`
- This allows the request to be forwarded to another JSP, a servlet or a static resource.
 - The resource to which the request is being forwarded should be in the same context as the JSP dispatching the request
 - Execution in the current JSP stops when it encounters `jsp:forward` tag
 - The output stream need not be buffered and it can contain some output written to it.

- 12) A session has been created by the client. If the client does not continue the session within a specified time, which of the following will not happen
- a) The server will expire the session and delete all data associated with the session
 - b) The server will expire the session but the data associated with the session are retained
 - c) The session key is invalidated
 - d) The old session key is not associated with any session

- 13) What is the output of the following program

```
class getBoolValues {
public static void main (String args[]) {
boolean a = true;
boolean b = false;
boolean c = a ^ b;
boolean d = (!a & b) | (a & !b)
System.out.println(" a ^ b = " + c);
System.out.println(" !a&b|a&!b = " + d);
}
}
```

- a) The code does not compile.
 - b) (B) a ^ b = true
!a&b|a&!b = true
 - c) The code compiles but raises an exception during runtime.
 - d) a ^ b = true
!a&b|a&!b = false
- 14) What is the output of the following program

```
class questionA {
public static void main ( String args[] ) {
int i, k;
i = 10;
k = i < 0 ? -i ? i; // get absolute value of i
System.out.print("Absolute value of ");
System.out.println(i + " is " + k);
i = -10;
k = i < 0 ? -i : i; // get absolute value of i
System.out.print("Absolute value of ");
System.out.println(i + " is " + k);
}
}
```

- a) The code does not compile.
- b) Absolute value of 10 is 10
Absolute value of -10 is 10
- c) The code compiles but raises an exception during runtime.
- d) Absolute value of 10 is 10
Absolute value of -10 is -10

18) What is the output of the following program ?

```
class Promote {
public static void main ( String args[ ] ) {
byte b 42;
char c = 'a';
short s = 1-24;
int i = 50000;
float f = 5.67 f;
double d = .1234;
double resuot = (f * b) + (i / c) - (d * s);
System.out.println("Result = " + result);
}
}
```

- a) The code does not compile.
- b) The final result of the expression is a double
- c) The final result of the expression is a float
- d) The final result of the expression is an int3

19) Consider the following Java Code

```
public class Alias {
int i;
Alias(int ii) { i = ii; }
public static void main ( String [ ] args ) {
Alias x = new Alias(7);
Alias1 y = x;
System.out.println("x : " + x.i);
System.out.println("y : " + y.i);
x.i++;
System.out.println("x : " + x.i);
System.out.println("y : " + y.i);
}
}
```

What will be the output ?

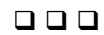
- a) The code does not compile
- b) The code compiles but gives runtime exception
- c) x = 7
y = 7
x = 8
y = 7
- d) x = 7
y = 7
x = 8
y = 8

20) Consider the following Java Code

```
public class Test {  
    public static void main (String args []) {  
        int age;  
        age = age + 1;  
        System.out.println("The age is " + age);  
    }  
}
```

What will be output of the above code?

- a) Compiles and runs with no output
- b) Compiles and runs printing out The age is 1
- c) Compiles but generates a runtime error
- d) The code does not compile



Section 5 : B. .Net

- 1) _____ are Ado.Net Providers.
 - a) Dataset
 - b) Command
 - c) Connect
 - d) Recordset

- 2) _____ classes used for Serialization
 - a) BinarySerializer
 - b) XMLSerializer
 - c) SoapFormat
 - d) SaopSerializer

- 3) ____ - are collection of Dataset
 - a) Table
 - b) DataRow
 - c) Columns
 - d) All

- 4) A structure can _____
 - a) Can have default constructor
 - b) Not inheritable
 - c) Reference type
 - d) All

- 5) UDDI stands for _____
 - a) Universal discovery description and integration
 - b) Universal description discovery and integration
 - c) Uniform discovery description and integration
 - d) Uniform description discovery and integration

- 6) .Net is a _____ for all .net applications.
 - a) Tool
 - b) Wizard
 - c) Runtime
 - d) None

- 7) CLR is _____
 - a) Complier Language Run
 - b) Common Language Runtime
 - c) Complex Language Runtime
 - d) None

- 8) _____ ensures proper code execution and type safety while the code runs.
 - a) Testing
 - b) Debugging
 - c) Code verification
 - d) ALL

- 9) _____ automatically manages memory thus eliminating memory leaks.
 - a) JIT Compiler
 - b) CLR
 - c) Class Loader
 - d) 1 and 2

- 10) Intermediate Language is also known as _____
- Microsoft Interim Language
 - Common Intermediate Language
 - Microsoft Common language
 - ALL
- 11) You are maintaining an ASP.NET application named SalesForecast. The application is written in Visual Basic .NET. The application includes a page named FirstQuarter.aspx that resides within the Sales namespace. The page class is named FirstQuarter. You discover that another developer inadvertently deleted the Page directive for FirstQuarter.aspx. You want to create a new Page directive to allow FirstQuarter.aspx to work properly. Which directive should you use?
- `<%@ Page Language="vb" Codebehind="FirstQuarter.aspx.vb" Inherits="FirstQuarter"%>`
 - `<%@ Page Language="vb" Codebehind="FirstQuarter.aspx.vb" ClassName="Sales.FirstQuarter"%>`
 - `<%@ Page Language="vb" Codebehind="FirstQuarter.aspx.vb" Inherits="Sales.FirstQuarter"%>`
 - `<%@ Page Language="vb" Codebehind="FirstQuarter.aspx.vb" ClassName="Sales.FirstQuarter" Inherits="FirstQuarter"%>`
- 12) You are creating an ASP.NET application for CertKing 's Internet Web site. You want to create a toolbar that will be displayed at the top of each page in the Web site. The toolbar will contain only static HTML code. The toolbar will be used in only your application. You plan to create the toolbar as a reusable component for your application. You need to create the toolbar as quickly as possible. What should you do?
- Create a new Web Control Library project. Create the toolbar within a Web custom control.
 - Add a new Web user control to your ASP.NET project. Create the toolbar within the Web user control.
 - Add a new Web Form to your ASP.NET project. Use HTML server controls to design the toolbar within the Web Form and save the Web Form with an .ascx extension.
 - Add a new component class to your ASP.NET project. Use HTML server controls to design the toolbar within the designer of the component class.
- 13) You are creating an ASP.NET page that enables users to select a country and view information on tourist attractions in that country. Users select a country from a list box named CK countryList. The list box displays country names. The list box also contains hidden country codes. Your code retrieves a cached DataTable object that contains tourist attraction description and a numeric country code named CountryID. The DataTable object is named attractionsTable. You want to extract an array of DataRow objects from the DataTable object. You want to include tourist attractions for only the selected county.

Which code segment should you use?

- `Dim result As DataRow() = attractionsTable.Select("CountryID = " & CK countryList.SelectedItem.Text)`
- `Dim result As DataRow() = attractionsTable.Select("CountryID = " & CK countryList.SelectedItem.Value)`
- `Dim result As DataRow = attractionsTable.Rows.Find("CountryID = " & CK countryList.SelectedItem.Value)`
- `Dim result As DataRow = attractionsTable.Rows.Find(KcountryList.SelectedItem.Value)`

- 14) You are creating an ASP.NET application that delivers customized news content over the Internet. Users make selections from an ASP.NET page. Your code creates a DataSet object named TkNewsItems, which contains the news items that meet the criteria selected by the user. You create a style sheet named NewsStyle.xsl that renders the data in CK nNewsItems in HTML format. You write the following code segment:

```
Dim doc As XmlDataDocument = new XmlDataDocument(TkNewsItems)
Dim tran As XsltTransform = New XsltTransform()
tran.Load("NewsStyle.xsl")
```

You want to display the transformed data as HTML text.

Which line of code should you add to the end of the code segment?

- a) tran.Transform(doc, Nothing, Response.OutputStream)
 - b) tran.Transform(doc, Nothing, Request.InputStream)
 - c) CK NewsItems.WriteXml(Response.OutputStream)
 - d) CK NewsItems.WriteXml(tran.ToString())
- 15) You are creating an ASP.NET page for a travel service. The page contains a CheckBoxList control that contains travel destinations. Customer can select favorite destinations to receive weekly e-mail updates of travel packages. The CheckBoxList control is bound to a database table of possible destinations. Each destination is ranked according to its popularity. You modify the page to sort the destination list by rank, from the most popular to the least popular. The list has three columns. You want the most popular destination to be on the top row of the check box list at run time.

Which property setting should you use for the CheckBoxList control?

- a) Set the RepeatDirection property to Vertical.
 - b) Set the RepeatDirection property to Horizontal.
 - c) Set the RepeatLayout property to Flow.
 - d) Set the RepeatLayout property to Table.
- 16) You develop an application that enables users to enter and edit purchase order details. The application includes a Windows Form named Display Boson Form. The application uses a clientsideDataSet object to manage data.

The DataSet object contains a Data Table object named BosonDetails. This object includes one column named Quantity and another named UnitPrice. For each item on a purchase order, your application must display a line item total in a DataGrid control on Display Boson Form. The line item is the product of Quantity times UnitPrice. Your database design does not allow you to store calculated values in the database.

You need to add code to your Form_Load procedure to calculate and display the line item total. The code added is

```
DataColumn totalColumn = new DataColumn("Total", Type.GetType("System.Decimal"));
BosonDetails.Columns.Add(totalColumn);
```

Which code segment should you add.

- a) totalColumn.Expression = "Quantity * UnitPrice";
- b) totalColumn="Quantity * UnitPrice";
- c) totalColumn.compute("Quantity * UnitPrice")
- d) None

17) You use Visual Studio .NET to develop a Windows-based application that interacts with a Microsoft SQL Server database. Your application contains a form named CustomerForm, which includes the following design-time components:

- SqlConnection object named CertKing Connection.
- SqlDataAdapter object named CertKing DataAdapter.
- DataSet object named ds, based on a database table named Customers.

At run time you add a TextBox control named textCompanyName to CustomerForm. You execute the Fill method of CertKing DataAdapter to populate Customers. Now you want to use data binding to display the CompanyName field exposed by ds in textCompanyName.

Which code segment should you use

- a) `textCompanyName.DataBind("Text ,ds, "Customers.CompanyName");`
- b) `textCompanyName.DataBindings.Add("Text", ds,"Customers.CompanyName");`
- c) `textCompany.DataBinding.Add("Text", ds,"Customers.Company");`
- d) `textCompanyName.DataBindings.Add("Text", ds,"Customers.CompanyName");`

18) _____ - are web method attributes

- a) MessageName
- b) Transactions
- c) Transacted
- d) ResponseBuffer

19) _____ is a disconnected, stand-alone entity used to represent a collection of data.

- a) DataReader
- b) DataTable
- c) DataView
- d) DataSet

20) The .Net tool used to install Windows Services is _____

- a) InsatlledUtil
- b) WinInsatll
- c) InsatllUtil
- d) SeviceInstall

□ □ □

Section 5 : C. Testing

- 1) The term "fit for use" refers to whose view of quality?
 - a) Supplier's
 - b) Auditor's
 - c) Producer's
 - d) Customer's

- 2) During what phase of the project should you START thinking about Testing Scenarios?
 - a) Requirements
 - b) Maintenance
 - c) Coding
 - d) Design

- 3) What is baseline?
 - a) Base lining is done when the product is ready to go to next phase
 - b) Basic product is called as Baseline product
 - c) Base version is called as baseline.
 - d) None of the above

- 4) Which of the following are configurable items?
 - a) Project Plan
 - b) Test Plan
 - c) Test Script
 - d) All of the Above

- 5) Validation is related to which one of following concept?
 - a) Dynamic testing if Quality Assurance
 - b) Dynamic testing if Quality Control
 - c) Static testing of Quality Assurance
 - d) Static testing of Quality Control

- 6) What are the types of Reviews?
 - a) In-Process Reviews
 - b) Phase-end Reviews
 - c) Post Mortem Reviews
 - d) All of the Above

- 7) After fixing the bug, which kind of testing is to be done?
 - a) Regression Testing
 - b) Retesting
 - c) Both
 - d) None of the above

- 8) Which one of the following is not a defect tracking tool?
 - a) Test Director
 - b) Rational Clear Quest
 - c) Microsoft Excel
 - d) Win runner

- 9) V Model consists of
- a) Verification
 - b) Validation
 - c) Both
 - d) None of the Above
- 10) Which of these are examples of Requirements testing?
- a) Creating a test matrix to prove that the documented requirements match what the user asked for
 - b) Using a checklist prepared specifically for the application to verify the app's compliance to organizational policies and governmental regulations
 - c) Determining that the system meets the audit requirements
 - d) All of the above
- 11) _____ is done in controlled environment and _____ is done at user level or client side.
- a) Beta and Alpha testing
 - b) Acceptance by company.
 - c) Alpha and Beta testing
 - d) Both are Beta testing.
- 12) Usability testing is done to check _____
- a) How simple is it to use (user friendly)
 - b) Check user likeness, interests
 - c) To check capability of program
 - d) None of the above
- 13) In Security testing, _____ is Perpetrators and _____ is point of Penetration.
- a) Hackers and Login Page
 - b) Users and Un-authorized access for privileges
 - c) Users and access to Idle Terminals
 - d) All of the above.
- 14) To determine whether operations can be continued after a disaster or after integrity of the system has been lost or reverting to a point where the integrity of the system was known. This is _____
- a) Security testing
 - b) Recovery Testing
 - c) Data Integrity
 - d) Access control
- 15) Which one of the following is not the attribute of Test Plan?
- a) Risk Analysis
 - b) Test Objectives
 - c) Roles & Responsibilities
 - d) Test Cases

Section 5 : D. RDBMS

- 1) One of the differences between UNIQUE KEY & PRIMARY KEY is
 - a) UNIQUE KEY cannot accept null value and PRIMARY KEY can accept null value.
 - b) UNIQUE KEY can accept null value and PRIMARY KEY cannot accept null value.
 - c) UNIQUE KEY accepts only one null value through life of a table and PRIMARY KEY cannot accept null value.
 - d) None of above.

- 2) Physical Data Independence is
 - a) It is possible to change the conceptual schemas without having to change external schemas or application programs.
 - b) It is possible to change the internal schema without having to change the conceptual or external schema.
 - c) It is possible to change the internal schema without having to change the external schemas.
 - d) none of the above

- 3) Which of the following is not true about second normal form.
 - a) In Second normal form all non-key attributes should be fully dependent on key.
 - b) In Second normal form all non-key attributes should be dependent on any of the column participating in a key.
 - c) Second normal form is rule for composite primary key.
 - d) If there is no composite primary key table is already in second normal form.

- 4) A transaction is a
 - a) Every write operation in the database.
 - b) All Insert, Update or delete operation on the database
 - c) Every read/write operation in the database
 - d) Collection of operations that perform a single logical function in to the database.

- 5) The language that enable user to access or manipulate data as organised by appropriate data model is

a) DDL	b) DML
c) DCL	d) PL/SQL

- 6) Which of the following is false statement:
 - a) All Candidate Keys excluding the Primary Key are known as Alternate Keys.
 - b) Foreign Key cannot be NULL value.
 - c) Entity is a 'thing' in the real world with an independent existence.
 - d) A tuple is a row.

- 15) In RDBMS, which of the following is true
- a) A relation must always have a primary key
 - b) A relation must always have a foreign key
 - c) A relation must have views
 - d) All of the above
- 16) In RDBMS all data is stored in
- a) Indexes
 - b) Views and Indexes
 - c) Tables
 - d) All of the above
- 17) Data Dictionary is owned by
- a) DBA
 - b) SYSTEM
 - c) SYS
 - d) USER
- 18) A transaction does not necessarily need to be
- a) Consistent
 - b) Repeatable
 - c) Atomic
 - d) Isolated
- 19) The purpose of defining an index is
- a) Enhance Sorting Performance
 - b) Enhance Searching Performance
 - c) Achieve Normalization
 - d) All of the above
- 20) RollBack Means :
- a) Undoing the changes made by a transaction before it commits
 - b) Undoing the changes made by a transaction after it commits
 - c) Re-doing the changes made by a transaction after it commits
 - d) Re-doing the changes made by a transaction before it commits

□ □ □

Section 5 : E. C, C++

- 1) Given `int **pArr` . Allocate memory for `2 * 3` matrix ,which one of the following set of statements can be written
- `pArr=(int **)malloc(sizeof(int) * 3);`
`for(i=0;i < 2;i++)`
`pArr[i] = (int *)malloc(sizeof(int*) * 2);`
 - `pArr=(int **)malloc(sizeof(int*) * 2);`
`for(i=0;i < 2;i++)`
`pArr[i] = (int *)malloc(sizeof(int) * 3);`
 - `pArr=(int *)malloc(sizeof(int) * 2);`
`for(i=0;i < 2;i++)`
`pArr[i] = (int)malloc(sizeof(int) * 3);`
 - none of the above
- 2) struct point
- ```

{
int x;
int y;
};
struct point origin,*pp;
main()
{
pp=&origin;
printf("origin is(%d%d)\n",(*pp).x,(*pp).y);
printf("origin is (%d%d)\n",pp->x,pp->y);
}

```
- origin is(0,0)  
origin is(0,0)
  - No output
  - origin is(garbage value,garbage value)  
origin is(garbage value,garbage value)
  - Error
- 3) Declaration of pointer to a function which return an `int*` and taking parameter as two `int` is
- `int * *fptr( int , int );`
  - `int * *fptr( int ,int);`
  - `int (*fptr)(int );`
  - `int* (*fptr)(int ,int )`



What are the values of i,j,k respectively?

- a) 0 25 9.
- b) 0 -5 9.
- c) garbage 25 9.
- d) garbage -5 -3.

8) What is the output of the following code:

```
char str[20] = "ENIGMA";
char *p, *q, *r;
p = str;
q=p++;
r=p+3 - (p-q);
printf("%s%s", (++p)+3, r);
```

- a) ENIGMA
- b) AGMA
- c) No output
- d) Error.

9) int main()

```
{
int a[3][3] = { 1,2,3,
 4,5,6,
 7,8,9 };
printf("% u %u %u ", a[0]+1, *(a[0]+1), (*(a+0)+1));
return 0;
}
Assume base address =2000.
```

- a) 2 2 2
- b) 3 2 2
- c) 2002 2 2
- d) Error.

10) int main( )

```
{
int abc(int);
int n=1234,m;
m = abc(n);
printf("%d\n",m);
return 0;
}
int abc(int n)
{
return n>0?n%10+abc(n/10) : 0;
}
```

- a) 10
- b) 0
- c) Infinite
- d) 1

```
11) int count=0;
class obj
{
 public:
 obj(){
 count++;
 }
 ~obj() {
 count--;
 }
};
main()
{
 obj A,B,C,D ;
 return 0 ;
}
```

What is the value of "count" immediately before the return statement above is executed?

- a) 0
- b) 1
- c) 2
- d) 4

```
12) #include<iostream.h>
class array
{
 private:
 int arr[5];
 public:
 array() {
 for(int i=0 ; i<5 ; i++)
 arr[i]=i*2;
 }
 int operator [] (int num) {
 return arr[num];
 }
};
int main()
{
 array obj;
 cout << obj[2];
 return 0;
}
```

What will the output of the above program be?

- a) 0
- b) 4
- c) 6
- d) Error

```
13) class A;
 class B
 {
 int num2;
 public:
 B(int n=20) { num2=n; }
 friend class A;
 };
 class A
 {
 int num1;
 public:
 A(int n=10) { num1=n; }
 void display(B bobj) {
 cout<<"num1 = "<<num1;
 cout<<"num2 = "<<bobj.num2;
 }
 };
 int main()
 {
 A aobj(50);
 B bobj(60);
 aobj.display(bobj);
 return 0;
 }
```

What are the values of num1 and num2 respectively:

- a) 50 50
- b) 60 60
- c) 50 60
- d) 10 20

14) What output does the following code generate?

```
#include<iostream.h>
class A {
public:
 A() { this->myfunc(); }
 virtual void myfunc() {
 cout << "A::myfunc()" << endl;
 }
};
```

```

class B : public A {
public:
 B() {
 this->myfunc();
 }
 virtual void myfunc() {
 cout << "B::myfunc()" << endl;
 }
};
int main(int, char**)
{
 B objectB;
 return 0;
}

```

- a) B::myfunc()
- b) B::myfunc()  
A::myfunc()
- c) A::myfunc()  
B::myfunc()
- d) Compile time error

15) What is the datatype of **this** pointer passed when a non const object invokes member function of its class ABC?

- a) int \* const this
- b) ABC \*const this
- c) const ABC \* this
- d) const ABC \*const this

16) #include <iostream>  
using namespace std;  
class Base {  
public:  
 virtual void what() {  
 cout << "Base what()" << endl;  
 }  
};  
class Derived : public Base {  
public:  
 Derived()  
 {cout<<"in derived ctor"<<endl;  
 }  
 void what() {  
 cout << "Derived what()" << endl;  
 }  
};  
void f() {  
 throw Derived(); }  
int main() {  
 try {  
 f();  
 }  
}

```

 }
 catch(Base b)
 { b.what();
 }
 catch(Derived d)
 {d.what ();
 }
 return 0;
}

```

- a) in derived ctor  
Base what()
- b) in derived ctor  
Derived what()
- c) Compile time error
- d) No output

```

17) class complex{
 double re;
 double im;
public:
 complex() : re(5.5),im(6.3) {}
 bool operator==(complex &rhs);
 operator int(){
 return (int)(re+im);
 }
};

```

```

bool complex::operator == (complex &rhs){
 if((this->re == rhs.re) && (this->im == rhs.im))
 return true;
 else
 return false;
}
int main(){
 complex c1;
 cout<< c1;
 return 0 ;
}

```

- a) Compile Time Error : << operator not overloaded in Class Complex
- b) 5.5 6.3
- c) 11
- d) No Output

18) What does extern "C" int func(int \*, Foo) accomplish?

- a) Function Overloading
- b) Function Overriding
- c) No Function Overloading
- d) Accessing "C" Functions from C++

19) class Boo

```
{
public:
 virtual void foo() =0;
 virtual void print() {
 cout<<"In class Boo.....";
 }
};
class DerivedBoo:public Boo
{
public:
 void print() {
 cout<<"In class DerivedBoo.....";
 }
};
int main()
{
 DerivedBoo dobj;
 dobj.print();
 return 0;
}
```

- a) In class Boo
- b) In class DerivedBoo
- c) In class Boo  
In class DerivedBoo
- d) Compile Time Error

20)

```
template<class T = int> class Foo {
public:
 template<class T2 = T> class InnerFoo {
 public:
 T2 t2;
 };
 static InnerFoo<long> *f;
};
Foo<double> f;
```

Referring to the sample code above, what is the type of T2 in the object f :

- a) int
- b) double
- c) long
- d) Compile Time Error

□ □ □

## QTP MOCK Answer sheet

| Section 1 : Mathematical |        | Section 2 : English |        | Section 3 : Logic |        |
|--------------------------|--------|---------------------|--------|-------------------|--------|
| Sr. No.                  | Answer | Sr. No.             | Answer | Sr. No.           | Answer |
| 1.                       | d      | 1.                  | b      | 1.                | c      |
| 2.                       | b      | 2.                  | a      | 2.                | d      |
| 3.                       | b      | 3.                  | c      | 3.                | b      |
| 4.                       | a      | 4.                  | b      | 4.                | b      |
| 5.                       | c      | 5.                  | a      | 5.                | b      |
| 6.                       | d      | 6.                  | d      | 6.                | c      |
| 7.                       | d      | 7.                  | c      | 7.                | d      |
| 8.                       | b      | 8.                  | c      | 8.                | a      |
| 9.                       | b      | 9.                  | a      | 9.                | d      |
| 10.                      | d      | 10.                 | d      | 10.               | d      |
| 11.                      | b      | 11.                 | c      | 11.               | a      |
| 12.                      | a      | 12.                 | c      | 12.               | d      |
| 13.                      | c      | 13.                 | d      | 13.               | c      |
| 14.                      | b      | 14.                 | b      | 14.               | d      |
| 15.                      | a      | 15.                 | c      | 15.               | a      |
| 16.                      | c      | 16.                 | c      | 16.               | a      |
| 17.                      | b      | 17.                 | a      | 17.               | a      |
| 18.                      | d      | 18.                 | d      | 18.               | d      |
| 19.                      | c      | 19.                 | d      | 19.               | c      |
| 20.                      | a      | 20.                 | b      | 20.               | a      |
| 21.                      | a      | 21.                 | b      | 21.               | c      |
| 22.                      | b      | 22.                 | d      | 22.               | d      |
| 23.                      | d      | 23.                 | c      | 23.               | c      |
| 24.                      | b      | 24.                 | c      | 24.               | b      |
| 25.                      | a      | 25.                 | a      | 25.               | a      |
| 26.                      | c      | 26.                 | c      | 26.               | d      |
| 27.                      | c      | 27.                 | b      | 27.               | d      |
| 28.                      | b      | 28.                 | c      | 28.               | d      |
| 29.                      | c      | 29.                 | c      | 29.               | d      |
| 30.                      | c      | 30.                 | b      | 30.               | b      |

| Section 4 : C, C++ |        |         |        |         |        |         |        |
|--------------------|--------|---------|--------|---------|--------|---------|--------|
| Sr. No.            | Answer | Sr. No. | Answer | Sr. No. | Answer | Sr. No. | Answer |
| 1.                 | a      | 11.     | a      | 21.     | b      | 31.     | c      |
| 2.                 | c      | 12.     | c      | 22.     | b      | 32.     | c      |
| 3.                 | a      | 13.     | b      | 23.     | c      | 33.     | a      |
| 4.                 | a      | 14.     | c      | 24.     | a      | 34.     | b      |
| 5.                 | b      | 15.     | a      | 25.     | d      | 35.     | b      |
| 6.                 | b      | 16.     | b      | 26.     | b      | 36.     | c      |
| 7.                 | d      | 17.     | b      | 27.     | c      | 37.     | d      |
| 8.                 | c      | 18.     | a      | 28.     | b      | 38.     | d      |
| 9.                 | b      | 19.     | a      | 29.     | b      | 39.     | c      |
| 10.                | b      | 20.     | b      | 30.     | b      | 40.     | a      |

| Section 5 |        |         |        |         |        |         |        |         |        |
|-----------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| Java      |        | .Net    |        | Testing |        | RDBMS   |        | C, C++  |        |
| Sr. No.   | Answer | Sr. No. | Answer | Sr. No. | Answer | Sr. No. | Answer | Sr. No. | Answer |
| 1.        | c      | 1.      | b      | 1.      | d      | 1.      | c      | 1.      | b      |
| 2.        | a      | 2.      | b      | 2.      | a      | 2.      | b      | 2.      | a      |
| 3.        | c      | 3.      | b      | 3.      | a      | 3.      | c      | 3.      | d      |
| 4.        | d      | 4.      | b      | 4.      | d      | 4.      | d      | 4.      | a      |
| 5.        | c      | 5.      | b      | 5.      | b      | 5.      | b      | 5.      | d      |
| 6.        | 4      | 6.      | b      | 6.      | d      | 6.      | b      | 6.      | c      |
| 7.        | 3      | 7.      | b      | 7.      | b      | 7.      | c      | 7.      | b      |
| 8.        | 1      | 8.      | c      | 8.      | d      | 8.      | c      | 8.      | b      |
| 9.        | d      | 9.      | b      | 9.      | c      | 9.      | d      | 9.      | c      |
| 10.       | a      | 10.     | b      | 10.     | d      | 10.     | c      | 10.     | a      |
| 11.       | d      | 11.     | b      | 11.     | c      | 11.     | a      | 11.     | a      |
| 12.       | c      | 12.     | b      | 12.     | a      | 12.     | c      | 12.     | b      |
| 13.       | d      | 13.     | a      | 13.     | d      | 13.     | a      | 13.     | c      |
| 14.       | b      | 14.     | b      | 14.     | b      | 14.     | b      | 14.     | c      |
| 15.       | c      | 15.     | a      | 15.     | d      | 15.     | a      | 15.     | b      |
| 16.       | d      | 16.     | b      | 16.     | a      | 16.     | c      | 16.     | a      |
| 17.       | b      | 17.     | a      | 17.     | d      | 17.     | c      | 17.     | c      |
| 18.       | c      | 18.     | d      | 18.     | b      | 18.     | b      | 18.     | c      |
| 19.       | c      | 19.     | d      | 19.     | d      | 19.     | b      | 19.     | d      |
| 20.       | b      | 20.     | c      | 20.     | a      | 20.     | a      | 20.     | b      |