ITC Infotech Screening_2nd June_

shanmukhapoornachand14316@gmail.com
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* Indicates required question

MCQ Section

- **This Form is AI Monitored.**
- **It will capture the Tab Shit Count.**
- **Anyone having tab shift will be disqualified.**
- **Section has 60 question.**
- **Answering all questions is mandatory.**
- **Time : 1:00 pm to 1:30 pm**

A man walks 1 km south, 1 km east, and 1 km north, ending up where he started. Where is he? *

- a) Equator
- b) North pole
- c) South Pole
- d) South east

Which of the following is valid? *

```
final int a;
a = 10;
a = 20;
System.out.println(a);
```

- a) 10
- b) 20
- c) Run time error
- d) Compilation error

Given the following Python code: *

```
def get_min(lst):
    return min(lst)

data = [5, 3, 8, 1]
result = get_min(data)
```

What is the value of result?

- a) 3
- b) 5
- c) 1
- d) 8

What is the output? *

```
public class Test {
   public static void main(String[] args) {
      int a = 5;
      System.out.println(a++ + ++a);
   }
}
```

- a) 10
- b) 11
- c) 12
- d) Compilation error

Choose the word that best fits the blank: *

Although the professor was known for his ***esoteric*** theories, his lectures were surprisingly _____.

- a) arcane
- b) incoherent
- c) accessible
- d) abstruse

Passage: *

"Despite receiving numerous warnings, the explorers ventured into the storm, believing that success lay just beyond the chaos."

What can be inferred?

- (●) a) The explorers ignored common sense.
- ( ) b)They believed the storm would pass quickly.
- ( ) c) Warnings are never useful.
- ( ) d) The storm was man-made.

Output of the following? *

```
int x = 10; System.out.println(x >>> 2);
```

- ( ) a) 2
- ( ) b) 3
- (●) c) 4
- ( ) d) 5

All roses are flowers. Some flowers fade quickly. Therefore: *

- ( ) a) All roses fade quickly.
- ( ) b) Some roses fade quickly.
- (●) c) Some flowers that fade quickly are not roses
- ( ) d) No flowers are roses.

What does this print? *

Boolean a = new Boolean("true"); Boolean b = new Boolean("TrUe"); Boolean c = new Boolean("yes"); System.out.println(a && b && c)

- a) True
- b) False

Identify the correct interpretation: *

"The louder he spoke of his honor, the faster we counted our spoons." — Emerson

- a) He was generous and helpful.
- b) Loud speech is often misinterpreted.
- c) Excessive emphasis on virtue may indicate dishonesty.
- d) Counting spoons is irrelevant to honor.

Passage (excerpt): *

"Humans often view themselves as distinct from nature, yet every breath we take and every bite we consume ties us back to the biosphere."

Which of the following best captures the main idea?

- a) Humans should not breathe or eat.
- b) Nature controls all aspects of life.
- c)Humans are inherently connected to nature.
- d) The biosphere is more important than humans.

Python, what is the purpose of the map() function? *

- a) It applies a given function to each item in an iterable and returns a list
- b) It filters items from an iterable based on a condition
- c) It applies a given function to each item in an iterable and returns an iterator
- d) It joins items in an iterable into a string

Fill in the blank with the correct preposition: *

He is indifferent _____ praise or criticism.

- a) of
- b) from
- c) to
- d) about

The author's tone in the statement "The so-called experts have again failed to predict the economic downturn" is: *

- a) Neutral
- b) Sympathetic
- c) Sarcastic
- d) pity

What will be the output of this Python code? *

```
x = 3
y = 2
result = f"{x} + {y} = {x + y}"
```

- [x] a) 3 + 2 = 5
- [ ] b) x + y = 5
- [ ] c) 3 + 2
- [ ] d) 5

Consider the following code: *

```
def filter_even(lst):
    return list(filter(lambda x: x % 2 == 0, lst))

data = [1, 2, 3, 4, 5]
result = filter_even(data)
```

What is the output of result?

- [x] a) [2, 4]
- [ ] b) [1, 3, 5]
- [ ] c) [2, 3, 4]
- [ ] d) [4]

Choose the correct sentence: *

- a) She likes dancing, to swim, and riding horses.
- b) She likes to dance, swim, and riding horses.
- c) She likes dancing, swimming, and riding horses.
- d) She likes to dance, swimming, and to ride horses.

What is the output? *

python

a = ([1, 2],) a[0] += [3] print(a)

- a) ([1, 2, 3],)
- b) Error
- c) ([1, 2], [3])
- d) ([1, 2],)

What will be printed? *

```
class Parent {
    static void show() {
        System.out.println("Parent");
    }
}

class Child extends Parent {
    static void show() {
        System.out.println("Child");
    }
}

public class Test {
    public static void main(String[] args) {
        Parent p = new Child();
        p.show();
    }
}
```

- a) Child
- b) Parent
- c) Compilation error
- d) Run time error

Which causes error? *

```
List<String> list = new ArrayList<>();
list.add("Java");
list.add(null);
System.out.println(list.get(1).length());
```

- a) 4
- b) 0
- c) Null point execution

Output? *

```
System.out.println(10 + 20 + "30" + 40);
```

- a) 7030
- b) 303040
- c) 3040
- d) 340

What is the output? *

```
public class Test {
    public static void main(String[] args) {
        String s1 = "Hello";
        String s2 = new String("Hello");
        System.out.println(s1 == s2);
    }
}
```

- a) true
- b)false
- c)runtime error
- d) Compilation error

*

What is the output?

```
x = 10
def func():
    print(x)
    x = 5
    print(x)

func()
```

- a) 10 5
- b) 5 5
- c) UnboundLocalError
- d) 10 10

Output of this? *

```
def outer(x):
    def inner():
        print(x)
    return inner

f1 = outer(10)
x = 20
f1()
```

- (●) a) 10
- ( ) b) 20
- ( ) c) 30
- ( ) d) 40

Identify the sentence with correct punctuation. *

- ( ) a) I brought pens, pencils and, books.
- ( ) b) I brought pens pencils, and books.
- (●) c) I brought pens, pencils, and books.
- ( ) d) I brought, pens, pencils and books.

If 2 × 3 = 13, 3 × 4 = 25, 4 × 5 = 41, then 5 × 6 = ? *

- (●) a) 61
- ( ) b) 65
- ( ) c) 71
- ( ) d) 81

Statement: All CEOs who are effective leaders are not always good public speakers. *

Which assumption is necessary?

- ( ) a) Public speaking is irrelevant to leadership.
- (●) b) Some good leaders may be poor public speakers.
- ( ) c) All effective leaders are excellent communicators.
- ( ) d) Leadership and public speaking are mutually exclusive.

Choose the word that best fits: *

His explanation was so _____ that everyone understood immediately.

- ( ) a) ambiguous
- (●) b) vivid
- ( ) c) obscure
- ( ) d) confusing

MISER : GENEROSITY :: *

- a) Tyrant : Power
- b) Coward : Bravery
- c) Genius : Intelligence
- d) Politician : Deception

What is the output of the following code? *

```
def generate_list(n):
    return [i for i in range(1, n + 1)]

result = generate_list(5)
```

- a) [1, 2, 3, 4]
- b) [1, 2, 3, 4, 5]
- c) [5, 4, 3, 2, 1]
- d) [0, 1, 2, 3, 4]

Result of: *

Integer a = 1000, b = 1000; System.out.println(a == b);

- a) True
- b) False

What will be printed? *

```
class A {
    A() {
        this(10);
        System.out.println("A()");
    }
    A(int x) {
        System.out.println("A(int): " + x);
    }
}

public class Test {
    public static void main(String[] args) {
        new A();
    }
}
```

- a) A()
- b) A(int): 10
- c) A()
- d) Compilation Error

Given the following code, what will be the output? *

```
def add_elements(x, y=[]):
    y.append(x)
    return y

print(add_elements(1))
print(add_elements(2, [3]))
print(add_elements(4))
```

- (●) a) [1], [3, 2], [4]
- ( ) b) [1], [3, 2], [4, 1]
- ( ) c) [1], [2, 3], [4]
- ( ) d) [1], [2, 3], [4, 1]

Choose the correct sentence: *

- ( ) a)He is the principle of the college.
- (●) b)The principle of gravity is universal.
- ( ) c) She lives by high principals.
- ( ) d) He has good moral principals.

Given the following code, what will be the result? *

```
def reverse_list(lst):
    return lst[::-1]

result = reverse_list([1, 2, 3, 4])
```

- (●) a) [4, 3, 2, 1]
- ( ) b) [1, 2, 3, 4]
- ( ) c) Compile time error
- ( ) d) [3, 2, 1]

What will the following code output? *

```
def calculate_tax(price, tax_rate=0.08):
    return price * (1 + tax_rate)

result = calculate_tax(200)
```

- (●) a) 216
- ( ) b) 200
- ( ) c) 205
- ( ) d) 210

Choose the correct usage: *

I demand that he _____ immediately.

- a) leaves
- b) leave
- c) left
- d) is leaving

Identify the grammatically incorrect sentence. *

- a) Each of the boys has a book.
- b) Neither of the answers are correct.
- c) None of them was invited.
- d) Everybody wants to succeed.

How would you check if a variable x is an instance of a specific class A in Python *

- a) x instanceof A
- b) isinstance(x, A)
- c) type(x) == A
- d) class(x) == A

What will be the result of the following code? *

```
def process_data(data):
    return [x * 2 for x in data]

result = process_data([1, 2, 3, 4])
```

- ○ a) [1, 2, 3, 4]
- ○ b) [1, 4, 9, 16]
- ○ c) [2, 4, 6, 8, 10]
- ◉ d) [2, 4, 6, 8]

What is printed? *

```
public class Test {
    public void print(Object o) {
        System.out.println("Object");
    }
    public void print(String s) {
        System.out.println("String");
    }

    public static void main(String[] args) {
        Test t = new Test();
        t.print(null);
    }
}
```

- a) Object
- b) String
- c) null
- d) Compilation error

He was known for his _, yet he could not resist the urge to brag about his recent promotion. *

- a) humility
- b) arrogance
- c) honesty
- d) indifference

If I _____ you, I wouldn't go to that place alone. *

- a) am
- b) was
- c) were
- d) be

What does this return? *

x = [1, 2, 3] print(x == x[::-1])

- a) True
- b) False

What is the result of the following code? *

```
import json
data = '{"name": "Alice", "age": 30}'
result = json.loads(data)
```

- a) {"name": "Alice", "age": 30}
- b) {'name': 'Alice', 'age': 30}
- c) ["Alice", 30]
- d) {'name': 'Alice', 'age': '30'}

Consider this Python code: *

```
def recursive_product(n):
    if n == 1:
        return 1
    return n * recursive_product(n - 1)

result = recursive_product(4)
```

What is the value of result?

- a) 12
- b) 120
- c) 10
- d) 24 (selected)

Choose the best version: *

"If he would have told me, I would have helped him."

- a) If he had told me, I would have helped him. (selected)
- b) If he would tell me, I will help him.
- c) If he tells me, I would help him.
- d) If he would have told me, I will help him.

Given the following code, what will the result be? *

```
def get_unique_elements(lst):
    return list(set(lst))

result = get_unique_elements([1, 2, 2, 3, 4, 4])
```

- a) [2, 3, 4]
- b) [1, 3, 4]
- c) [1, 2, 3, 4]
- d) [1,2,3]

What is the output? *

```
class Test {
    static int x = 10;

    static {
        x = 20;
    }

    public static void main(String[] args) {
        System.out.println(x);
    }
}
```

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What will be the output of the following code snippet? *

```
def reverse_string(s):
    return s[::-1]

result = reverse_string("hello")
```

- a) "hello"
- b) "olleh"
- c) "he"
- d) "o"

Identify the correct usage of the idiom "take something with a grain of salt": *

- a) She took the medicine with a grain of salt to help digest it.
- b) I took his explanation with a grain of salt because he often exaggerates.
- c) He took the insult with a grain of salt and got angry.
- d) She sprinkled a grain of salt while taking notes.

What will be printed? *

python

def append_to_list(value, my_list=[]): my_list.append(value) return my_list print(append_to_list(1)) print(append_to_list(2))

- ○ a) [1], [2]
- ◉ b) [1], [1, 2]
- ○ c) [2], [1, 2]
- ○ d) [1], [1]

What will this code print? *

```
String s1 = "abc";
String s2 = new String("abc");
System.out.println(s1 == s2);
```

- ○ a) true
- ◉ b)false

Analyze the following code: *

```
def swap_elements(lst, idx1, idx2):
    lst[idx1], lst[idx2] = lst[idx2], lst[idx1]
    return lst

data = [1, 2, 3, 4]
result = swap_elements(data, 0, 2)
```

What will result contain?

- a) [2, 3, 1, 4]
- b) [4, 2, 3, 1]
- c)[1, 2, 3, 4]
- d) [3, 2, 1, 4]

What does this return? *

java

```
Integer a = 127; Integer b = 127; Integer c = 128; Integer d = 128;
System.out.println(a == b); System.out.println(c == d);
```

true false

Despite her apparent _, she had a sharp mind and a wicked sense of humor. *

- a) candor / simplicity
- b) aloofness / detachment
- c) simplicity / naivety
- d) dullness / sluggishness

What will be the output of this code? *

```
def add(x, y):
    return x + y

numbers = [1, 2, 3, 4]
result = list(map(lambda x: add(x, 5), numbers))
```

- (●) a) [6, 7, 8, 9]
- ( ) b) [6, 7, 8, 9, 10]
- ( ) c) [1, 2, 3, 4]
- ( ) d) [1, 2, 3, 4, 5]

Output? *

```
print("5" * 2 + str(5 + 5))
```

- (●) a) 5510
- ( ) b) 5105
- ( ) c) 555
- ( ) d)510

What is the output of this code? *

```
def get_max_value(lst):
    return max(lst)

result = get_max_value([1, 9, 3, 7, 2]
```

- (●) a) 9
- ( ) b) 7
- ( ) c) 1
- ( ) d) 3

What happens? *

```
class Test {
    static {
        int x = 5 / 0;
    }

    public static void main(String[] args) {}
}
```

- ( ) a) Compile time error
- ( ) b) Run time error
- (●) c) Exception in static block.
- ( ) d) Code runs fine.

Given the following code: *

```
def count_occurrences(lst, value):
    return lst.count(value)

data = [1, 2, 2, 3, 3, 3]
result = count_occurrences(data, 3)
```

What is the value of result

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

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