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0805N407

Candidate's Seat No :_____

MBA in BI Sem.-2 Examination

BI-207

PBA

Time : 1-30 Hours] **May-2025** **[Max. Marks : 70**

Instructions :(1) This paper contains **Thirty Five** questions.
(2) Each Question is of 2 Marks.
(3) Each Question is of multiple choice.
(4) All questions are compulsory.

NO.	QUESTION	Marks
Q.1	Which of the following operators is the correct option for power(ab)? a) a ^ b b) a**b c) a ^ ^ b d) a ^ * b	2
Q.2	What is a dictionary in Python? a) A collection of ordered elements b) A collection of key-value pairs c) A mutable list of tuples d) A collection of unique elements	2
Q.3	Which of the following is the correct way to access the value of a key in a dictionary? a) dict.key b) dict[key] c) dict.get(key) d) Both b and c	2
Q.4	What is the output of the following code? my_dict = {'x': 5, 'y': 10} my_dict['x'] = 20 a) {'x': 5, 'y': 10} b) {'x': 20, 'y': 10} c) {'x': 5, 'y': 10, 'x': 20} d) Error	2
Q.5	How do you access the value 200 from the following nested dictionary? my_dict = {'a': {'b': {'c': 200}}} a) a) my_dict['a']['b']['c'] b) b) my_dict['a']['b']('c') c) c) my_dict['a'].b.c d) d) my_dict['a']['b'].get('c')	2
Q.6	What will be out of below code? s = "Python" print(s[: :2]) a) Python b) yon	2

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c) hon
d) Pto

Q.7 What will be the datatype of the var in the below code snippet? **2**

```
var = 10
print(type(var))
```

a) 10
b) number
c) int
d) float

Q.8 How is a code block indicated in Python? **2**

a) Indentation
b) Bracket
c) Key
d) None of above

Q.9 What will be the output of the following code snippet? **2**

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

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

Q.10 What will be the output of the following code snippet? **2**

```
print(type(5 / 2))
print(type(5 // 2))
```

a) int and float
b) float and int
c) float and float
d) int and int

Q.11 What will be the output of the following code snippet? **2**

```
sum=0
for i in range(1,5):
  sum=sum+i
print(sum)
```

a) 15
b) 10
c) 0
d) error

Q.12 What will be the output of the following code snippet? **2**

```
sum=0
for i in range(1,10,3):
  sum=sum+i
print(sum)
```

a) 15
b) 10
c) 12
d) 55

Q.13 What will be the output of the following code snippet? **2**

```
while True:
   print("hello")
```

a) hello
b) it will print infinite times hello
c) True
d) error

Q.14 What will be the output of the following code snippet? **2**

```
num=0
while num<5:
   num=num+1
   if(num==3):
      continue
   print(num)
```

a) 1 2
b) 1 2 3
c) 1 2 3 4 5
d) 1 2 4 5

Q.15 What will be the output of the following code snippet? **2**

```
x=1
for i in range(1,5):
   x=x*i
print(x)
```

a) 120
b) 24
c) 15
d) 12

Q.16 What will be the output of the following code snippet? **2**

```
sentence = "welcome to Python programming!"
vowels = "aeiouAEIOU"
count = 0

for char in sentence:
   if char in vowels:
      count += 1
print(count)
```

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

Q.17 What will be the output of the following code snippet? **2**

```
S = "Hello, World"
print(S[-5:-2])
```

a) World
b) Wor
c) roW
d) error

Q.18 What will be the output of the following code snippet? **2**

```
S = "Exam"
print(S*3)
```


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a) Exam
b) Exam* Exam* Exam
c) Error
d) ExamExamExam

Q.19 What will be the output of the following code snippet? **2**

```
for x in range(1, 10, 2):
    print(i)
```

a) 1 3 5 7 9
b) 0 2 4 6 8
c) 1 2 3 4 5
d) error

Q.20 What will be the output of the following code snippet? **2**

```
a = [1, 2, 3]
a.append([4, 5])
print(a)
```

a) [1, 2, 3, 4, 5]
b) [1, 2, 3, [4, 5]]
c) [1, 2, 3, (4, 5)]
d) Error

Q.21 What will the result be for the following Python code? **2**

```
def greet(name):
    return "Hello, " + name
print(greet("Tushar"))
```

a) Tushar
b) Hello, name
c) Hello, Tushar
d) error

Q.22 What will the result be for the following Python code? **2**

```
def abc(a, b=5):
    return a * b
print(abc(4))
```

a) 4
b) 20
c) 45
d) error

Q.23 How can you define a recursive function in Python? **2**

a) By calling the function inside its own definition
b) By importing a recursive module
c) By using a loop inside the function
d) By using a class definition

Q.24 What is Output of below Code? **2**

```
abc = lambda x: x+5
print(abc(4))
```

a) 9
b) 4
c) 54
d) Error

Q.25 What will be the output of np.arange(2,10,2)? **2**

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

Q.26 Which NumPy function is used to create an identity matrix? **2**

a) np.eye()
b) np.iden()
c) np.ones()
d) Both a and b

Q.27 What is a Pandas Series? **2**

a) A one-dimensional labeled array
b) A two-dimensional labeled array
c) A three-dimensional labeled array
d) None of the above

Q.28 How can you print the first five rows of a DataFrame? **2**

a) df.top(5)
b) df.head(5)
c) df.first(5)
d) df.start(5)

Q.29 How do you check the number of rows and columns in a DataFrame? **2**

a) df.size
b) df.len()
c) df.shape
d) df.count()

Q.30 How do you remove missing values from a Pandas DataFrame? **2**

a) df.delete()
b) df.dropna()
c) df.clear()
d) df.removeNA()

Q.31 What is Output of below Code? **2**

```
numbers = [1, 2, 3, 4, 5]
abc = list(map(lambda x: x**2, numbers))
print(abc)
```

a) [1, 2, 3, 4, 5]
b) [2, 4, 6, 8, 10]
c) [1, 4, 9, 16, 25]
d) error

Q.32 How do you select a column named "Age" from a DataFrame df? **2**

a) df("Age")
b) df[Age]
c) df["Age"]
d) df.select("Age")

Q.33 Which function is used to write a DataFrame to a CSV file? **2**

a) df.to_csv("file.csv")
b) df.write_csv("file.csv")
c) df.export_csv("file.csv")
d) df.save_csv("file.csv")

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Q.34 What is Output of below Code? **2**

```
a = [1, 2, 3, 4, 5, 6]
b = filter(lambda x: x % 2 == 1, a)
print(list(b))
```

a) [2,4,6]
b) [1, 2, 3, 4, 5, 6]
c) [1, 3, 5]
d) b

Q.35 What is Output of below Code? **2**

```
from functools import reduce
a = [10, 20, 30]
res = reduce(lambda x, y: x * y, a)
print(res)
```

a) 60
b) 6000
c) [10, 20, 30]
d) error