9:00 AM(BATCH)

Total points   31/40   ?

BASIC PYTHON EXAM

The respondent's email (**harshkachhaway8001@gmail.com**) was recorded on submission of this form.

Name *

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✓   1)Which of the following is used to take user input in Python? *   1/1

○ A) scanf()

◉ B) input()   ✓

○ C) gets()

○ D) cin

✓ 2)What is the output of the following code? *

1/1

```
x = 5
y = "5"
print(x + int(y))
```

○ A) 55

◉ B) 10   ✓

○ C) Error

○ D) '55'

✓ 3)Which data type is mutable in Python? *

1/1

○ A) Tuple

◉ B) List   ✓

○ C) String

○ D) Integer

✓ 4) What is the output of: * 1/1

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

○ A) [1,2,3]

⦿ B) [1,2,3,4] ✓

○ C) [4]

○ D) Error

✓ 5)What is the output of print(bool([]))? * 1/1

○ A) True

⦿ B) False ✓

○ C) None

○ D) 0

✓ 6)Which function converts string to lowercase? *   1/1

○ A) to_lower()

○ B) lower()

◉ C) str.lower()   ✓

○ D) make_lower()

✓ 7) What will range(5) return? *   1/1

○ A) [0,1,2,3,4,5]

◉ B) [0,1,2,3,4]   ✓

○ C) [1,2,3,4,5]

○ D) Error

✓   8)What is the output of: *   1/1

```
for i in range(1, 10, 3):
    print(i, end=' ')
```

○ A)1 2 3

◉ B) 1 4 7   ✓

○ C) 1 3 5 7 9

○ D) 3 6 9

✓   9)What is the data type of the following in Python? *   1/1

```
x = (1,)
```

○ A)int

○ B) list

◉ C) tuple   ✓

○ D) set

✗   10) Which statement is true about Python? *   0/1

◉ A) It is a compiled language   ✗

○ B) It is an interpreted language

○ C) It is written in Java

○ D) It does not support OOP

Correct answer

◉ B) It is an interpreted language

✓   11)What is the correct way to import NumPy? *   1/1

◉ A) import numpy as np   ✓

○ B) import np as numpy

○ C) include numpy

○ D) use numpy

✓   12) Which function creates an array from 0 to 9? *   1/1

○ A) np.array(0,9)

◉ B) np.arange(10)   ✓

○ C) np.arange(0,9)

○ D) np.zeros(9)

✓ 13) Output of np.zeros((2,3)) is an array of shape: *   1/1

○ A) (3,2)

◉ B) (2,3)   ✓

○ C) (6,)

○ D) (2,2,3)

✓ 14) What does np.eye(3) create? *   1/1

○ A) A diagonal matrix

○ B) A zero matrix

◉ C) An identity matrix   ✓

○ D) A random matrix

✓ 15) Which function returns random numbers between 0 and 1? *   1/1

◉ A) np.random.rand()   ✓

○ B) np.random.randomint()

○ C) np.random.range()

○ D) np.random.float()

✗   16) What is the result of: *   0/1

```
a = np.array([1,2,3])
b = np.array([4,5,6])
print(a + b)
```

○ A) [5,7,9]

○ B) [14]

◉ C) [1,2,3,4,5,6]   ✗

○ D) Error

Correct answer

◉ A) [5,7,9]

✓   17) What is the output of np.arange(6).reshape(2,3)? *   1/1

◉ A) 2x3 matrix   ✓

○ B) 3x2 matrix

○ C) 6x1 matrix

○ D) Error

✗ 18) Which attribute gives the number of dimensions? * 0/1

○ A) arr.ndim

◉ B) arr.shape ✗

○ C) arr.size

○ D) arr.dim()

Correct answer

◉ A) arr.ndim

✓ 19) What does arr[1:, :-1] represent? * 1/1

◉ A) All rows except first, all columns except last ✓

○ B) First row only

○ C) First and last row only

○ D) Full array

✗   20) Output of: *   0/1

```
np.linspace(0,10,5)
```

○ A) [0,2.5,5,7.5,10]

◉ B) [0,5,10]   ✗

○ C) [1,2,3,4,5]

○ D) [0,2,4,6,8,10]

Correct answer

◉ A) [0,2.5,5,7.5,10]

✗   21) Which data structure in pandas is 1-dimensional? *   0/1

○ A) Series

○ B) DataFrame

○ C) Panel

◉ D) Array   ✗

Correct answer

◉ A) Series

✗ 22) Which method reads a CSV file? * 0/1

   ○ A) pd.import_csv()

   ○ B) pd.read_csv()

   ◉ C) pd.read() ✗

   ○ D) pd.load_csv()

Correct answer

   ◉ B) pd.read_csv()

✓ 23) What does df.shape return? * 1/1

   ○ A) Total number of elements

   ◉ B) (rows, columns) ✓

   ○ C) Data types

   ○ D) Column names

✗ 24) How to view top 3 rows? * 0/1

○ A) df.head(3)

◉ B) df.top(3) ✗

○ C) df.first(3)

○ D) df.start(3)

Correct answer

◉ A) df.head(3)

✓ 25) Which method drops rows with NaN values? * 1/1

○ A) df.delete_na()

○ B) df.remove_na()

◉ C) df.dropna() ✓

○ D) df.omit_na()

✗ 26) What is the output of df['A']? * 0/1

    ○ A) A Series

    ◉ B) A DataFrame ✗

    ○ C) A NumPy array

    ○ D) A list

Correct answer

    ◉ A) A Series

✓ 27) Which command gives mean of all numeric columns? * 1/1

    ◉ A) df.mean() ✓

    ○ B) df.average()

    ○ C) df.describe()

    ○ D) df.stat()

✓ 28) How to get unique values in a column? * 1/1

    ◉ A) df['col'].unique() ✓

    ○ B) df['col'].distinct()

    ○ C) df['col'].values()

    ○ D) df['col'].diff()

✓ 29) What does df.iloc[2] return? *   1/1

○ A) 2nd row

◉ B) 3rd row (by position)   ✓

○ C) 2nd column

○ D) All rows except 2

✓ 30) To group data by a column use: *   1/1

○ A) df.aggregate('column')

◉ B) df.groupby('column')   ✓

○ C) df.group('column')

○ D) df.sum('column')

✓ 31) What is slicing used for? *   1/1

○ A) Adding elements

○ B) Removing elements

◉ C) Extracting parts of a sequence   ✓

○ D) Sorting a list

✓ 32) What is the output of: * 1/1

```
a = [10,20,30,40,50]
print(a[1:4])
```

○ A) [10,20,30]

◉ B) [20,30,40] ✓

○ C) [30,40,50]

○ D) [10,30,50]

✓ 33) What does a[::-1] do? * 1/1

○ A) Sorts list ascending

○ B) Sorts list descending

◉ C) Reverses list ✓

○ D) Removes last element

✓ 34) Output of a[:3] when a=[1,2,3,4,5]? * 1/1

◉ A) [1,2,3] ✓

○ B) [1,2,3,4]

○ C) [2,3,4]

○ D) [3,4,5]

✓ **35) Output of a[-2:] when a=[10,20,30,40]? *** 1/1

○ A) [10,20]

○ B) [20,30]

◉ C) [30,40] ✓

○ D) [40]

✓ **36) What does arr[0, :] return in NumPy? *** 1/1

◉ A) Entire first row ✓

○ B) Entire first column

○ C) Last row

○ D) Diagonal elements

✗ **37) What does arr[:, 1] return? *** 0/1

◉ A) Entire first column ✗

○ B) Entire second column

○ C) Entire second row

○ D) Diagonal elements

Correct answer

◉ B) Entire second column

✓ 38) What will be the output of the following code? *   1/1

```
a = [10, 20, 30, 40, 50]
print(a[-3])
```

○ A) 10

○ B) 20

◉ C) 30   ✓

○ D) 40

✓ 39) What does df.loc[2, 'Name'] return? *   1/1

◉ A) The value at index 2 and column Name   ✓

○ B) The 2nd row

○ C) The entire column Name

○ D) The entire row 2

✓ 40) Which of the following data structures does **not** allow duplicate   *1/1
elements?

○ A) List

○ B) Tuple

◉ C) Set   ✓

○ D) Dictionary

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