

Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	955
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No
Revisit allowed for group Instructions? :	Yes
Maximum Instruction Time :	0
Minimum Instruction Time :	0
Group Time In :	Minutes
Revisit Section :	Yes
Action on Revisit Section :	View and Edit
Navigate To Group Summary From Last Question? :	No
Disable Submit Button During Assessment? :	No
Section Selection Time? :	0
No of Optional sections to be attempted :	0

Sem2 Intro to Python

Section Id :	64065375498
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	18
Number of Questions to be attempted :	18
Section Marks :	50
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	No
Section Maximum Duration :	0
Section Minimum Duration :	0
Section Time In :	Minutes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653160664
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 6406531043036 Question Type : MCQ

Correct Marks : 0

Question Label : Multiple Choice Question

**THIS IS QUESTION PAPER FOR THE SUBJECT "FOUNDATION LEVEL : SEMESTER II:
INTRODUCTION TO PYTHON (COMPUTER BASED EXAM)"**

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?

CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

**(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS
REGISTERED BY YOU)**

Options :

6406533522286.  YES

6406533522287.  NO

Question Number : 2 Question Id : 6406531043037 Question Type : MCQ

Correct Marks : 0

Question Label : Multiple Choice Question

Useful Data

Presentation

There are two types of blocks that you would see in all the questions:

Code

```
for i in range(10):  
    if i % 2 == 0:  
        print(i)
```

Input or Output

```
0  
2  
4  
6  
8
```

Useful information

range

Sample behaviour of the `range` function:

- `range(5)` corresponds to the sequence `0, 1, 2, 3, 4`
- `range(1, 5)` corresponds to the sequence `1, 2, 3, 4`
- `range(1, 1)` is the empty sequence

// operator

`//` is the floor division operator. `5 // 2` is `2` and *not* `2.5`

SAT → integer

For all SAT questions in this exam, the answer will always be an integer and not a float value. If the answer to a question is 18, then just enter that value. Do *not* enter 18.0

Options :

6406533522288. ✓ Useful Data has been mentioned above.

6406533522289. ✗ This data attachment is just for a reference & not for an evaluation.

Sub-Section Number :

2

Sub-Section Id :

640653160665

Question Shuffling Allowed :

Yes

Question Number : 3 Question Id : 6406531043038 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

Given the following code snippets, what will be the output if the input `speed` is 70?

```
speed = int(input())
flag = False
if speed > 70:
    flag = True
    if speed > 90:
        level = 'Very Fast'
    else:
        level = 'Fast'
elif speed > 40:
    if speed > 60 and flag:
        level = 'Moderate'
    else:
        level = 'Slow'
print(level)
```

Options :

6406533522290. ✖ `Very Fast`

6406533522291. ✖ `Fast`

6406533522292. ✖ `Moderate`

6406533522293. ✔ `Slow`

Question Number : 4 Question Id : 6406531043039 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

What is the output of the following code?

```
def write_data():  
    students = [  
        "Alvin,85,Mathematics",  
        "Beli,92,Physics",  
        "Chatur,78,Chemistry"  
    ]  
  
    with open('student_grades.csv', 'w') as file:  
        for student in students:  
            file.write(student + '\n')  
  
write_data()
```

Options :

- 6406533522294. ✖ An empty file
- 6406533522295. ✔ A file with three lines of student data
- 6406533522296. ✖ A file with student names only
- 6406533522297. ✖ A file with student grades only

Question Number : 5 Question Id : 6406531043040 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following Python code snippet.

```
class TaskManager:
    def __init__(self):
        self.tasks = ["create ppt", "assignment", "homework"]

    def add_task(self, task):
        self.tasks.append(task)

    def update_task(self, index, task):
        self.tasks[index] = task

    def get_tasks(self):
        return self.tasks

manager = TaskManager()
manager.update_task(1, "python assignment")
manager.add_task("tea break")

for task in manager.get_tasks():
    print(task)
```

What will be the output of the above code?

Options :

create ppt
assignment
homework

6406533522298. ✖

create ppt
python assignment
homework
tea break

6406533522299. ✔

python assignment
homework
tea break

6406533522300. ✖

create ppt
assignment
homework
tea break

6406533522301. ✖

Question Number : 6 Question Id : 6406531043041 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

What is the output of the following snippet of code?

```
def list_processor(numbers):
    max_diff = 0
    result_pair = None

    for i in range(len(numbers)):
        for j in range(i+1, len(numbers)):
            current_diff = abs(numbers[i] * 2 - numbers[j])

            if current_diff > max_diff:
                max_diff = current_diff
                result_pair = (numbers[i], numbers[j])

    return sum(result_pair) if result_pair else 0

data = [5, 12, 8, 3, 16]
print(list_processor(data))
```

Options :

6406533522302. ✖ 20

6406533522303. ✖ 24

6406533522304. ✔ 15

6406533522305. ✖ 32

Question Number : 7 Question Id : 6406531043042 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

What will be the output of the following code snippet?

```
def mysterious_function(x):  
    if x > 10:  
        return x * 2  
    elif x > 5:  
        return x + 5  
    return x  
  
results = [  
    mysterious_function(3),  
    mysterious_function(7),  
    mysterious_function(12)  
]  
print(sum(results))
```

Options :

6406533522306. ✖ 22

6406533522307. ✖ 27

6406533522308. ✔ 39

6406533522309. ✖ 40

Question Number : 8 Question Id : 6406531043043 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

What will be the output of the following code?

```
def process_list(numbers):  
    result = []  
    for num in numbers:  
        if num % 2 == 0:  
            result.append(num * 2)  
        else:  
            result.append(num + 1)  
    return result  
  
original = [1, 2, 3, 4, 5]  
modified = process_list(original)  
print(sum(modified))
```

Options :

6406533522310. ✖ 25

6406533522311. ✔ 24

6406533522312. ✖ 35

6406533522313. ✖ 40

Sub-Section Number : 3
Sub-Section Id : 640653160666
Question Shuffling Allowed : Yes

Question Number : 9 Question Id : 6406531043044 Question Type : SA
Correct Marks : 3

Question Label : Short Answer Question

Consider the following Python code snippet.

```
text = "PythonProgramming"
parts = [
    text[2:7],
    text[-4:],
    text[::2]
]
result = ''.join(parts)
print(len(result))
```

What will be the output after execution?

Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type : Equal
Text Areas : PlainText
Possible Answers :
18

Question Number : 10 Question Id : 6406531043045 Question Type : SA
Correct Marks : 3
Question Label : Short Answer Question

Consider the following Python code snippet:

```
a = 50
b = 2
steps = 0

while a > 0:
    a = a // b
    steps += 1

print(steps)
```

What will be the output after executing the code?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

6

Question Number : 11 **Question Id :** 6406531043046 **Question Type :** SA

Correct Marks : 3

Question Label : Short Answer Question

Consider the following Python code snippet:

```
try:
    result = 15 / 0
    print(item)
except Exception:
    result = -1
except ZeroDivisionError:
    result = -2
except NameError:
    result = -3
finally:
    result += 10

print(result)
```

What will be the numerical value of `result` after executing the code?

Assume that there is no prefix or suffix with this code and this is the whole code.

Hint about different errors classes:

- ZeroDivisionError - Occurs when attempted to divide by zero.
- NameError - Occurs when an undefined variable is accessed.
- Exception - Base class of all errors.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

9

Question Number : 12 **Question Id :** 6406531043047 **Question Type :** SA

Correct Marks : 3

Question Label : Short Answer Question

Consider the following snippet of code:

```
A = [7, 2, 8]
B = []
C = 3
i = 0
while i < len(A):
    B += A[:i] + A[i+2:]
    i += 1
```

What will be the value of `len(B)` at the end of execution of the above code?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

4

Sub-Section Number :

4

Sub-Section Id :

640653160667

Question Shuffling Allowed :

Yes

Question Number : 13 **Question Id :** 6406531043048 **Question Type :** SA

Correct Marks : 4

Question Label : Short Answer Question

athletes.csv is a CSV file that has the following contents:

```
Name,Sport,Performance
John,Swimming,85.5
Emma,Running,92.3
Mike,Cycling,78.6
Sarah,Gymnastics,88.9
Tom,Athletics,81.2
```

What is the output of the following snippet of code?

```
file = open('athletes.csv', 'r')
data = file.readlines()
file.close()

total = 0
count = 0
for line in data[1:]:
    parts = line.strip().split(',')
    if len(parts) >= 3:
        performance = float(parts[2])
        if performance >= 85:
            total += performance
            count += 1

result = total / count if count > 0 else 0
print(int(result))
```

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

88

Sub-Section Number :

5

Sub-Section Id :

640653160668

Question Shuffling Allowed :

Yes

Question Number : 14 Question Id : 6406531043049 Question Type : MSQ

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following snippets correctly create a list of cubes of odd numbers from 1 to 11 (both inclusive i.e. [1, 27, 125, 343, 729, 1331])?

Select all that apply.

Options :

```
cubes = [x**3 for x in range(11) if x % 2 != 0]
```

6406533522319. ✖

```
cubes = [x**3 for x in range(1, 12, 2)]
```

6406533522320. ✔

```
cubes = [x**3 for x in range(10) if x % 2 == 0]
```

6406533522321. ✖

```
cubes = [x**3 for x in range(3, 12, 2)]
```

6406533522322. ✖

```
cubes = [x**3 for x in range(13) if x % 2 != 0]
```

6406533522323. ✔

Question Number : 15 Question Id : 6406531043050 Question Type : MSQ

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following statements about the tuple operations are TRUE? **Select ALL that apply.**

```
def tuple_explorer():  
    my_tuple = (10, 20, 30, 40, 50)  
    result = []  
  
    result.append(my_tuple[0])  
  
    result.append(20 in my_tuple)  
  
    extended_tuple = my_tuple + (60, 70)  
    result.append(len(extended_tuple))  
  
    return result  
  
output = tuple_explorer()  
print(output)
```

Options :

6406533522324. ✔ The length of the `result` list is 3

6406533522325. ✔ The value at index 0 in the `result` list is 10

6406533522326. ✓ The output will contain the boolean value `True`

6406533522327. ✗ The last value in the `output` will be 10

Question Number : 16 Question Id : 6406531043051 Question Type : MSQ

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

Consider the following snippet of code:

```
def process_string(text):  
    result = []  
    for char in text:  
        if char.isalpha():  
            result.append(char.upper())  
    return ''.join(result)  
  
modified_text = process_string(original_text)
```

Given `original_text` is a predefined string, which of the following statements are **TRUE**?

Options :

6406533522328. ✓ `modified_text` contains only alphabetic characters

6406533522329. ✓ `len(modified_text)` is less than or equal to the length of `original_text`

6406533522330. ✓ All characters in `modified_text` are uppercase

6406533522331. ✗ Non-alphabetic characters are removed from `original_text`

Sub-Section Number :

6

Sub-Section Id :

640653160669

Question Shuffling Allowed :

No

Question Id : 6406531043052 Question Type : COMPREHENSION Sub Question Shuffling

Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (17 to 18)

Question Label : Comprehension

Consider the Python code below and answer the two given subquestions.

```
def unknown_algo(arr, target):  
    seen = set()  
  
    for num in arr:  
        diff = target - num  
        if diff in seen:  
            return (diff, num)  
        seen.add(num)  
  
    return None
```

Sub questions

Question Number : 17 Question Id : 6406531043053 Question Type : MCQ

Correct Marks : 1.5

Question Label : Multiple Choice Question

What will return when invoking `unknown_algo()` with the arguments `([1, 2, 3, 4, 5], 9)`?

Options :

6406533522332. ✖ `(3, 5)`

6406533522333. ✖ `(2, 6)`

6406533522334. ✔ `(4, 5)`

6406533522335. ✖ `None`

Question Number : 18 Question Id : 6406531043054 Question Type : MCQ

Correct Marks : 1.5

Question Label : Multiple Choice Question

For which of the following sets of arguments will the function `unknown_algo()` return **None**?

Options :

6406533522336. ✖ `([1, 3, 5, 7], 4)`

6406533522337. ✔ `([2, 4, 6, 8], 16)`

6406533522338. ✖ ([1, 2, 3], 5)

6406533522339. ✖ ([1, 2, 3, 4], 7)

Sub-Section Number : 7
Sub-Section Id : 640653160670
Question Shuffling Allowed : No

Question Id : 6406531043055 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Question Numbers : (19 to 21)
Question Label : Comprehension

Consider the following snippet of code and answer the three sub-questions :

```
def do_something(total_questions, questions_answered):  
    def find_this(count):  
        if count == 0:  
            return 0  
        return 1 + find_this(count - 1)  
  
    questions_completed = len(questions_answered)  
    questions_left = find_this(total_questions - questions_completed)  
  
    if questions_left == 0:  
        print("All questions are answered.")  
        return True  
    else:  
        print(f"Questions remaining: {questions_left}")  
        return False
```

Sub questions

Question Number : 19 Question Id : 6406531043056 Question Type : MCQ
Correct Marks : 1.5
Question Label : Multiple Choice Question

What will be the first line of output when the function

`do_something(10, [1, 2, 3, 4, 5])` is invoked?

Options :

6406533522340. ✖ All questions are answered.

6406533522341. ✖

Questions remaining: 3

6406533522342. ✓

Questions remaining: 5

6406533522343. ✗

Questions remaining: 6

Question Number : 20 Question Id : 6406531043057 Question Type : MSQ

Correct Marks : 1.5 Max. Selectable Options : 0

Question Label : Multiple Select Question

For which set of arguments for the function `do_something()` will return **True**.

Options :

6406533522344. ✓

5, [1, 2, 3, 4, 5]

6406533522345. ✓

10, [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

6406533522346. ✗

10, [1, 2, 3, 4, 5, 6, 7, 8, 9]

6406533522347. ✗

8, [1, 2, 3, 4, 5, 6, 7]

Question Number : 21 Question Id : 6406531043058 Question Type : MSQ

Correct Marks : 1 Max. Selectable Options : 0

Question Label : Multiple Select Question

For which set of arguments will `do_something()` return **False**?

Options :

6406533522348. ✓

10, [1, 2, 3, 4, 5]

6406533522349. ✗

5, [1, 2, 3, 4, 5]

6406533522350. ✓

6, [1, 2, 3, 4, 5]

6406533522351. ✗

4, [1, 2, 3, 4]

Sem1 English1

Section Id :	64065375499
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	26
Number of Questions to be attempted :	26
Section Marks :	100
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	No
Section Maximum Duration :	0
Section Minimum Duration :	0
Section Time In :	Minutes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653160671
Question Shuffling Allowed :	No

Question Number : 22 Question Id : 6406531043059 Question Type : MCQ

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "FOUNDATION LEVEL : SEMESTER I: ENGLISH I (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?

CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS REGISTERED BY YOU)

Options :

6406533522352.  YES

6406533522353.  NO

Sub-Section Number :	2
Sub-Section Id :	640653160672
Question Shuffling Allowed :	No

Question Id : 6406531043060 Question Type : COMPREHENSION Sub Question Shuffling