Question Number : 86 Question Id : 640653825669 Question Type : SA
Correct Marks : 1
Question Label : Short Answer Question

The mode of the observations $x_1, x_2, \ldots, x_n$ is 40. What is the mode of the observations $2x_1 + 10, 2x_2 + 10, \ldots, 2x_n + 10$?

Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type : Equal
Text Areas : PlainText
Possible Answers :
90

Sub-Section Number :	10
Sub-Section Id :	640653122930
Question Shuffling Allowed :	Yes

Question Number : 87 Question Id : 640653825670 Question Type : MSQ
Correct Marks : 1 Max. Selectable Options : 0
Question Label : Multiple Select Question
Choose the correct option(s):
Options :
6406532776356. ✔ 25th percentile is known as the first quartile.
6406532776357. ✖ Median is the 60th percentile of any data.
6406532776358. ✖ Inter-quartile range is defined as the difference between third quartile and second quartile.
6406532776359. ✔ We need to arrange the data in ascending order to calculate the percentile.

Sem2 Intro to Python

Section Id :	64065359242
Section Number :	5
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	15
Number of Questions to be attempted :	15
Section Marks :	51
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 :	640653122931
Question Shuffling Allowed :	No

Question Number : 88 Question Id : 640653825671 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 :

6406532776360. ✔ YES

6406532776361. ✖ NO

Question Number : 89 Question Id : 640653825672 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:

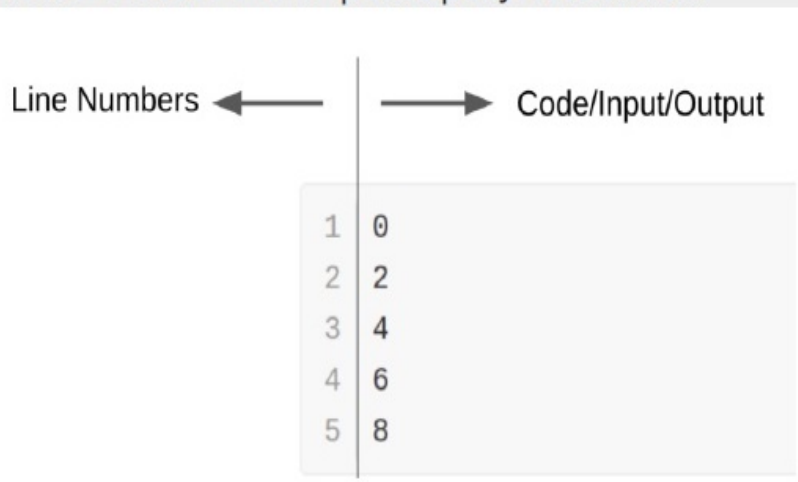
Code

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

Input or Output

```
0
2
4
6
8
```

In both the blocks, please note that the region to the left of the thin vertical line — `|` — corresponds to line-numbers. Do not confuse the line numbers with the content of the code or the input-output. Just to be clear:



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

NAT → integer

For all NAT 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 :

6406532776362. ✔ Useful Data has been mentioned above.

6406532776363. ✖ This data attachment is just for a reference & not for an evaluation.

Sub-Section Number :	2
Sub-Section Id :	640653122932
Question Shuffling Allowed :	Yes

Question Number : 90 Question Id : 640653825673 Question Type : MCQ
Correct Marks : 3
Question Label : Multiple Choice Question

Consider a program that accepts a word as input from the user and prints the number of punctuation marks in it. You can assume that the input will be given in lower case.

Here we are considering only the given punctuation marks(',', '-', '.', ':', ';').

Snippet-1

```
word = input()
count = 0
punctuation_marks = [',', '-', '.', ':', ';']
for char in word:
    if char in punctuation_marks:
        count += 1
print(count)
```

Snippet-2

```
word = input()
count = 0
for char in word:
    if char in ',-.:;':
        count += 1
print(count)
```

Which of these two snippets is correct?

Options :

6406532776364. ✖ Only snippet-1 is correct

6406532776365. ✖ Only snippet-2 is correct

6406532776366. ✔ Both snippets are correct

6406532776367. ✖ Both snippets are wrong

Question Number : 91 Question Id : 640653825674 Question Type : MCQ Correct Marks : 3

Question Label : Multiple Choice Question

We wish to print the following pattern:

```
00000
01110
01110
01110
00000
```

Which of these two snippets is correct?

Snippet-1

```
n = 5
zero = '0' # len(zero) == 1
one = '1' # len(one) == 1
for i in range(n):
    if i == 0 or i == n - 1:
        print(zero * n)
    else:
        print(zero + one * (n - 2) + zero)
```

Snippet-2

```
n = 5
zero = '0' # len(zero) == 1
one = '1' # len(one) == 1
for i in range(n):
    for j in range(n):
        if j == 0 or j == n - 1:
            print(one, end = '') # end argument is an empty string
        else:
            print(zero, end = '') # end argument is an empty string
    print()
```

Useful information for solving this problem:

Input

```
print('1', end = '') # end argument is an empty string
print('2', end = '') # end argument is an empty string
print()
print('3' * 5)
```

Output

```
12
33333
```

Options :

6406532776368. ✔ Only snippet-1 is correct

6406532776369. ✖ Only snippet-2 is correct

6406532776370. ✖ Both snippets are correct

6406532776371. ✖ Both snippets are wrong

Question Number : 92 Question Id : 640653825675 Question Type : MCQ
Correct Marks : 3

Question Label : Multiple Choice Question

What is the output of following snippet of code?

Snippet-1

```
s = 3 >= 2 >= 1
print(type(s))
```

Options :

6406532776372. ✔ `<class 'bool'>`

6406532776373. ✖ `<class 'int'>`

6406532776374. ✖ `<class 'str'>`

6406532776375. ✖ `<class 'list'>`

Sub-Section Number : 3

Sub-Section Id : 640653122933

Question Shuffling Allowed : Yes

Question Number : 93 Question Id : 640653825676 Question Type : MSQ
Correct Marks : 3 Max. Selectable Options : 0
Question Label : Multiple Select Question

Consider the following snippet:

```
price = float(input())
if price <= 100:
    print("Affordable range")
elif price <= 500:
    print("Mid-range")
elif price <= 1000:
    print("Higher range")
else:
    print("Luxury range")
```

Select all inputs for which the output is:

```
Luxury range
```

Options :

6406532776376. ✖ `777`

6406532776377. ✔ `1111`

6406532776378. ✔ `3333`

6406532776379. ✖ `999`

Question Number : 94 Question Id : 640653825677 Question Type : MSQ
Correct Marks : 3 Max. Selectable Options : 0
Question Label : Multiple Select Question

Select all inputs for which the code below prints the value `True`.

```
sentence = input()
space = ' ' # one space between the quotes
n = len(sentence)
# all letters in vowels are in lower case
vowels = 'aeiou'

surprise = True
for char in vowels:
    if char not in sentence:
        surprise = False
        break

print(surprise)
```

Each input is a sentence with a space between consecutive words, all of which are in lower case.

Options :

6406532776380. ✖ `happy life`

6406532776381. ✖ `learn python`

6406532776382. ✔ `auto industries`

6406532776383. ✔ `quaint house`

Sub-Section Number : 4
Sub-Section Id : 640653122934
Question Shuffling Allowed : Yes

Question Number : 95 Question Id : 640653825678 Question Type : SA
Correct Marks : 3
Question Label : Short Answer Question

What is the output of the following snippet of code? Enter an integer as your answer.

```
str1 = "Paradox"
str2 = "Celebration"
str3 = str1 + " " + str2[:6] #There is single space in between quote
print(len(str3))
```

Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type : Equal
Text Areas : PlainText
Possible Answers :
14

Question Number : 96 Question Id : 640653825679 Question Type : SA
Correct Marks : 3
Question Label : Short Answer Question
What is the output of the following snippet of code? Enter an integer as your answer.

```
x = 15
y = 20
if x != y:
    result = abs(x - y)
else:
    result = x + y
print(result)
```

Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type : Equal
Text Areas : PlainText
Possible Answers :
5

Question Number : 97 Question Id : 640653825680 Question Type : SA

Correct Marks : 3

Question Label : Short Answer Question

Consider the following snippet of code.What will the output be?

```
val = 0
L = [7, 1, 8, 3, 10]
temp = []
for num in L:
    if num % 2 == 0:
        temp.append(num)
    else:
        val += num
print(len(temp)*val)
```

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

22

Question Number : 98 Question Id : 640653825681 Question Type : SA

Correct Marks : 3

Question Label : Short Answer Question

Consider the following snippet of code.

```
num = int(input("Enter a number"))
s_num = 1
while num != 0:
    digit = num % 10
    s_num = s_num  + digit
    num //= 10
print(s_num)
```

Assume that 1234 is passed as input to the code.What will be the output?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

11

Sub-Section Number :	5
Sub-Section Id :	640653122935
Question Shuffling Allowed :	No

Question Id : 640653825682 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (99 to 100)

Question Label : Comprehension

Consider the following snippet of code and answer the given sub-questions that follow:

```
L = ["apple", "banana", "cherry", "date", "fig", "grape"]
max_L = []
maxlen = 0
for s in L:
  if len(s) > maxlen:
    maxlen = len(s)
    max_L = [s]
  elif len(s) == maxlen:
    max_L.append(s)
print(max_L)
print(len(max_L))
```

Sub questions

Question Number : 99 Question Id : 640653825683 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

What is the first line of output?

Options :

6406532776388. ✖ `['banana']`

6406532776389. ✖ `['cherry']`

6406532776390. ✔ `['banana', 'cherry']`

6406532776391. ✖ `['cherry', 'banana']`

Question Number : 100 Question Id : 640653825684 Question Type : SA
Correct Marks : 3
Question Label : Short Answer Question
What is the second line of the output? Enter an integer as your answer.
Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type : Equal
Text Areas : PlainText
Possible Answers :
2

Question Id : 640653825685 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (101 to 102)
Question Label : Comprehension
Consider the following snippet of code and answer the subquestions that follow:

```
my_list = [1, 2, 3, 4, 5]
new_list = my_list
new_list[0] = 10
print(my_list)
```

Sub questions

Question Number : 101 Question Id : 640653825686 Question Type : MCQ
Correct Marks : 3
Question Label : Multiple Choice Question
What will be the output?
Options :
6406532776393. ✔ [10, 2, 3, 4, 5]
6406532776394. ✖ [1,10, 2, 3, 4, 5]
6406532776395. ✖ [1, 2, 3, 4, 5]
6406532776396. ✖ [10]

Question Number : 102 Question Id : 640653825687 Question Type : MSQ
Correct Marks : 3 Max. Selectable Options : 0
Question Label : Multiple Select Question
Choose the correct option regarding the given code.
Options :

6406532776397. ✔ List is a mutable object.

6406532776398. ✖ List is an immutable object.

6406532776399. ✔ Both `my_list` and `new_list` are referring to the same list.

6406532776400. ✖ `my_list` and `new_list` are referring to different lists.

Question Id : 640653825688 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (103 to 104)
Question Label : Comprehension
Consider the following snippet of code.

```
a = int(input())
b = int(input())
string = 'IAmInFoundationLevel'
print(string[a:b])
```

The output of this code is `Foundation`.

Sub questions

Question Number : 103 Question Id : 640653825689 Question Type : SA
Correct Marks : 3
Question Label : Short Answer Question
What is the value of *a*, the first input entered by the user, if it is given that the user entered a positive integer?
Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type : Equal
Text Areas : PlainText
Possible Answers :

5

Question Number : 104 Question Id : 640653825690 Question Type : SA

Correct Marks : 3

Question Label : Short Answer Question

What is the value of *b*, the second input entered by the user, if it is given that the user entered a negative integer?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

-5

Question Id : 640653825691 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (105 to 106)

Question Label : Comprehension

Consider the following snippet of code and answer all the subquestions that follow:

```
P = [[1, 2, 3],[2, 4, 6],[3, 6, 9]]

s = 0
p = 1
for i in range(len(P)):
    for j in range(len(P)):
        if i == j:
            s = s + P[i][j]
        if j == len(P)-1:
            p = p * P[i][j]

print(s)
print(p)
```

Sub questions

Question Number : 105 Question Id : 640653825692 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

What is the first line of the output?

Options :

6406532776403. ✖ 10

6406532776404. ✔ 14

6406532776405. ✖ 6

6406532776406. ✖ 18

Question Number : 106 Question Id : 640653825693 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

What is the second line of the output?

Options :

6406532776407. ✖ 6

6406532776408. ✔ 162

6406532776409. ✖ 36

6406532776410. ✖ 48

Sem2 English2

Section Id :	64065359243
Section Number :	6
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	33
Number of Questions to be attempted :	33
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