Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

Programming in Python

Section Id :	640653140964
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	14
Number of Questions to be attempted :	14
Section Marks :	50
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Section Maximum Duration :	0
Section Minimum Duration :	0
Section Time In :	Minutes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653396051
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 6406532158149 Question Type : MCQ

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "FOUNDATION LEVEL : PROGRAMMING IN

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 :

6406537020622. ✔ Yes

6406537020623. ✖ No

Question Number : 2 Question Id : 6406532158150 Question Type : MCQ

Correct Marks : 0

Question Label : Multiple Choice Question

NAT → integer

For all NAT questions in this exam, the answer will always be an integer and not a float value.

Options :

6406537020624. ✔ Instructions has been mentioned above.

6406537020625. ✖ This Instructions is just for a reference & not for an evaluation.

Sub-Section Number :	2
Sub-Section Id :	640653396052
Question Shuffling Allowed :	Yes

Question Number : 3 Question Id : 6406532158151 Question Type : MCQ

Correct Marks : 3

Question Label : Multiple Choice Question

What is the output of the following code?

```
x = "07"
y = int(x) + len(x)
print(f"{y:04d}")
```

Options :

6406537020626. ✔ `0009`

6406537020627. ✖ `009`

6406537020628. ✖ `9`

6406537020629. ✖ `0007`

Question Number : 4 Question Id : 6406532158152 Question Type : MCQ
Correct Marks : 3
Question Label : Multiple Choice Question
What is the output of the following code?

```
L = [2, 4, 6]
M = L
N = L[:]

M[1] = M[0] + N[-1]
N.append(M[1] - L[0])

print(L, N)
```

Options :

6406537020630. ✔ `[2, 8, 6] [2, 4, 6, 6]`

6406537020631. ✖ `[2, 8, 6] [2, 4, 6, 8]`

6406537020632. ✖ `[2, 4, 6] [2, 4, 6, 6]`

6406537020633. ✖ `[2, 8, 6, 6] [2, 4, 6]`

Question Number : 5 Question Id : 6406532158154 Question Type : MCQ
Correct Marks : 3
Question Label : Multiple Choice Question
Which of the following statements is TRUE regarding the code below?

```
A = [5, 1, 4]
B = sorted(A)
A.sort(reverse=True)
```

Options :

6406537020638. ✖ `A` and `B` both become `[5, 4, 1]`

6406537020639. ✖ `sorted(A)` changes the original list

6406537020640. ✔ `B` becomes `[1, 4, 5]` while `A` becomes `[5, 4, 1]`

6406537020641. ✖ `sort()` returns a new sorted list

Sub-Section Number : 3
Sub-Section Id : 640653396053
Question Shuffling Allowed : Yes

Question Number : 6 Question Id : 6406532158153 Question Type : MCQ
Correct Marks : 4
Question Label : Multiple Choice Question
Consider the following code.

```
word = "education"
result = ""

for ch in word:
    if ch in "aeiou":
        continue
    if ch == 't':
        break
    result += ch.upper()

print(result)
```

What will be printed?
Options :

6406537020634. ✔ `DC`

6406537020635. ✖ `DCT`

6406537020636. ✖ `DCN`

6406537020637. ✖ `EDC`

Sub-Section Number : 4
Sub-Section Id : 640653396054
Question Shuffling Allowed : Yes

Question Number : 7 Question Id : 6406532158155 Question Type : MSQ
Correct Marks : 4 Max. Selectable Options : 0
Question Label : Multiple Select Question
Consider the following code.

```
s = "PyThOn2026"
```

Select all expressions that evaluate to `True`.
Options :
6406537020642. ✔ `"Th" in s`

6406537020643. ✔ `s.lower() == "python2026"`

6406537020644. ✖ `s[2:6] == "Thon"`

6406537020645. ✖ `s[::-1][0] == "P"`

Question Number : 8 Question Id : 6406532158156 Question Type : MSQ
Correct Marks : 4 Max. Selectable Options : 0
Question Label : Multiple Select Question
Consider the following Python code.

```
data = ({1, 2}, [3, 4], (5, 6))
```

Which of the following statements will run without giving an error?
Options :
6406537020646. ✔ `data[0].add(7)`

6406537020647. ✔ `data[1][0] = 10`

6406537020648. ✖ `data[2][1] = 9`

6406537020649. ✔ `data[1].append(data[2][0])`

Sub-Section Number : 5
Sub-Section Id : 640653396055

Question Shuffling Allowed : Yes

Question Number : 9 Question Id : 6406532158157 Question Type : SA Keyboard Layout : Inscript

Correct Marks : 4

Question Label : Short Answer Question

What is the output of the following code?

```
values = [3, 5, 2, 8]

new = [x + 1 if x % 2 == 0 else x * 2 for x in values]

print(sum(new))
```

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

28

Question Number : 10 Question Id : 6406532158159 Question Type : SA Keyboard Layout : Inscript

Correct Marks : 4

Question Label : Short Answer Question

What is the output of the following code?

```
text = "python programming"

A = text.count("m")
B = len(text.split())
C = len('text')

print(A + B - C)
```

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

0

Question Number : 11 Question Id : 6406532158160 Question Type : SA Keyboard Layout : Inscript

Correct Marks : 4

Question Label : Short Answer Question

What is the output of the following code?

```
num = 531
total = 0

while num > 0:
    digit = num % 10
    if digit % 2 == 1:
        total += digit
    num //= 10

print(total)
```

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

9

Sub-Section Number :	6
Sub-Section Id :	640653396056
Question Shuffling Allowed :	Yes

Question Number : 12 Question Id : 6406532158158 Question Type : SA Keyboard Layout : Inscript

Correct Marks : 3

Question Label : Short Answer Question

What is the output of the following code?

```
count = 0

for i in range(1, 5):
    for j in range(i):
        if j == 2:
            break
        count += 1

print(count)
```

Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type : Equal
Text Areas : PlainText
Possible Answers :
7

Sub-Section Number :	7
Sub-Section Id :	640653396057
Question Shuffling Allowed :	No

Question Id : 6406532158161 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (13 to 14)
Question Label : Comprehension

```
def transform(items):
    out = []

    for i, val in enumerate(items):

        if isinstance(val, str):
            out.append(val.upper()[::-1])

        elif isinstance(val, int):
            if i % 2 == 0:
                out.append(val * 2)
            else:
                out.append(val + 5)

    return out

data = ["go", 4, "cat", 3, 2]

result = transform(data)
```

Note: isinstance(val, datatype) returns True if val is of object of type 'datatype' and False, otherwise.

Based on the above data, answer the given subquestions.

Sub questions

Question Number : 13 Question Id : 6406532158162 Question Type : MCQ

Correct Marks : 4

Question Label : Multiple Choice Question

What is the value of `result`?

Options :

6406537020654. ✔ `['OG', 9, 'TAC', 8, 4]`

6406537020655. ✖ `['GO', 8, 'CAT', 3, 4]`

6406537020656. ✖ `['OG', 4, 'TAC', 6, 2]`

6406537020657. ✖ `['GO', 9, 'TAC', 8, 2]`

Question Number : 14 Question Id : 6406532158163 Question Type : MSQ

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question
Suppose the following condition inside the transform() function:

```
if i % 2 == 0:
```

is replaced with

```
if val % 2 == 0:
```

For the given input

```
data = ["go", 4, "cat", 3, 2]
```

which of the following statements will become TRUE?
Options :
6406537020658. ✔ The final output becomes:
`['OG', 8, 'TAC', 8, 4]`

6406537020659. ✖ `"go"` becomes `"GO"`

6406537020660. ✔ integer `3` becomes `8`

6406537020661. ✖ integer `4` becomes `9`

Question Id : 6406532158164 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Question Numbers : (15 to 16)
Question Label : Comprehension

```
def analyze(L):
    total = 0

    for word in L:

        if len(word) < 5:
            total += len(word)

        elif 'a' in word:
            total += 2

        else:
            total += 1

    return total

items = ["pen", "scale", "book", "eraser", "ink"]
ans = analyze(items)
```

Based on the above data, answer the given subquestions.

Sub questions

Question Number : 15 Question Id : 6406532158165 Question Type : MCQ

Correct Marks : 4

Question Label : Multiple Choice Question

What is the value of `ans`?

Options :

6406537020662. ✖ `13`

6406537020663. ✖ `12`

6406537020664. ✖ `11`

6406537020665. ✔ `14`

Question Number : 16 Question Id : 6406532158166 Question Type : SA Keyboard Layout : Inscript

Correct Marks : 3

Question Label : Short Answer Question

How many times is the condition `len(word) < 5` evaluated?

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