

**PARUL UNIVERSITY**  
**FACULTY OF APPLIED SCIENCE**  
**M.Sc., Summer 2017-18 Examination**

**Semester: 2**  
**Subject Code: 11206156**  
**Subject Name: Python Programming**

**Date: 18-05-2018**  
**Time: 10:30AM to 11:45AM**  
**Total Marks: 30**

**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1. A) Multiple choice questions.(Each of 01 mark) (04)**

1) Choose correct output of following program.

```
print type(type(int))
```

- a) type 'int'      b) type 'type'      c) Error      d) 0

2) What is the output of the following program?

```
i = 0
```

```
while i < 3:
```

```
    print i
```

```
    i++
```

```
    print i+1
```

- a) 0 2 1 3 2 4      b) 0 1 2 3 4 5      c) Error      d) 1 0 2 4 3 5

3) In RE- Module \w Matches one of the following pattern

- a) word characters.      b) wild characters      c) whitespaces      d) width characters

4) Choose correct output of following program.

```
data = 50
```

```
try:
```

```
    data = data/0
```

```
except ZeroDivisionError:
```

```
    print('Cannot divide by 0 ', end = ")
```

```
else:
```

```
    print('Division successful ', end = ")
```

```
try:
```

```
    data = data/5
```

```
except:
```

```
    print('Inside except block ', end = ")
```

```
else:
```

```
    print('PU', end = ")
```

- a) Cannot divide by 0 PU  
 b) Cannot divide by 0  
 c) Cannot divide by 0 Inside except block PU  
 d) Cannot divide by 0 Inside except block

**Q.1. B) Answer Short Questions. (Each of 02 marks) (04)**

- 1) Explain the different way of writing comments in python with example syntax.
- 2) Explain use of “*def \_\_init\_\_()*” with respect to object oriented programming in python with suitable example.

**Q.2. A) Find the output of following (Each of 01 mark) (04)**

1)

```
r = lambda q: q * 2
```

```
s = lambda q: q * 3
```

```
x = 2
```

```
x = r(x)
```

```
x = s(x)
```

```
x = r(x)
```

```
print x
```

2)

```
sets = {3, 4, 5}
sets.update([1, 2, 3])
print(sets)
```

3)

```
list = [1, 2, 3, None, (1, 2, 3, 4, 5), ['PU', 'for', 'All']]
print len(list)
```

4)

```
a=12
b=23
a,b=b,a
print b,a
```

**Q.2. B) Do as directed. (Each of 02 mark)**

**(04)**

- 1) Write the program to create dictionary and add 3 items with key and value than update the values of key through user input and print the dictionary, keys and values separately.
- 2) Write the modes of File Operations used for file opening.

**Q.3. Answer any two of the following question.(Each of 04 marks)**

**(08)**

- 1) Write a python program to demonstrate use of “*for*”
- 2) Write a python program to demonstrate use of “*if*”, “*else*” and “*elif*”
- 3) Write a python program to check whether the given number is prime or not.

**Q.4. Answer any one of the following questions.**

**(06)**

- 1) Explain use of “*break*”, “*continue*”, “*pass*” with suitable code in python.
- 2) Explain slicing ([:]) in string, list and tuple with example.