

**PARUL UNIVERSITY**  
**FACULTY OF IT & COMPUTER SCIENCE**  
**MCA Summer 2017 – 18 Examination**

**Semester: 5****Subject Code: 05201333****Subject Name: Open Source Tools and Frameworks****Date: 13/06/2018****Time: 10: 30 am to 01:00 pm****Total Marks: 60****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 Answer the followings.****A. Write short notes.****(05)**

1. Explain purpose of the statement: `import mysql.connector`
2. Show usage of `commit` and `rollback`.
3. Explain purpose of operator: `not in`
4. What is followed optionally by Class header line?
5. Is python portable programming language? Why?

**B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)****(10)**

1. Python is
  - a. Object oriented language
  - b. Procedure oriented language
  - c. Binary language
  - d. None of these
2. `socket.SOCK_STREAM` refers to
  - a. UDP socket
  - b. TCP socket
  - c. TCP and UDP socket
  - d. None of these
3. `str = ['P','y','t','h','o','n'];`  
`str[2:4];`
  - a. ['y','t']
  - b. ['t','h']
  - c. ['t','h','o']
  - d. ['t','h','o','n']
4. `str = ['P','y','t','h','o','n'];`  
`str[-3:-1];`
  - a. ['h','t']
  - b. ['t','y']
  - c. ['h','o']
  - d. Error
5. Syntax of class constructor in Python is
  - a. `init()`
  - b. `Init()`
  - c. `__init__()`
  - d. `Init{ }`
6. Which of the following is used define function in python?
  - a. `fun`
  - b. `def`
  - c. `define`
  - d. `function`

7. Output of following statement-“ bool()”
  - a. True
  - b. False
8. Output of following statement –“not(3>4)”
  - a. True
  - b. False
9. Output of following statement  
not(9&9)
  - a. True
  - b. False
10. Default argument to function parameters is must in Python. True/False.

**Q.2 Answer the followings.**

1. Explain how to convert a list into tuple and vice versa.
2. Explain assert statement.
3. Explain class inheritance. (15)
4. Explain looping using while and for statements
5. Using suitable example, explain how to create class and object in Python.
6. Explain global and local variables with example.

**Q.3 Answer the following. (Any three)** (15)

1. Explain role of MVT-Django.
2. Write short note on Joomla.
3. Write and explain code showing usage of UDP socket.
4. Using suitable example demonstrate how to connect to MySQL database and insert a row in some table.

**Q.4 Answer the following.**

- A. Explain exception handling in Python. (05)
  - B. Explain two sequences and their methods and operators: dictionary, tuple (10)
- OR**
- B. Write code for Echo client/server application using stream sockets. (10)