**Q.1 A) Multiple Choice Questions. 10**

**1)** In python block of code can be defined using \_\_\_\_\_\_ Key.

a) curly braces b) round braces

c) square braces d) Indentation

**2)** The name of local variables start with an underscore character are

used \_\_\_\_\_.

a) to identify the variable

b) to indicate a private variable of a class

c) to indicate special variable

d) to indicate the public variable of a class

**3)** What is the output of the following code?

x=10

type (x)

a) <class 'tuple'> b) <class 'int'>

c) Type error d) Value Error

**4)** What is the output of the following code?

all([5>8, 6>3, 3>1])

a) True b) False

c) 011 d) Error

**5)** In function, \_\_\_\_\_\_ type of arguments doesn't requires to maintain

position of arguments.

a) Default b) Required

c) Keyword d) Variable Length

**6)** To reverse the following list, \_\_\_\_\_ command is used.

1st = [10,11,12,13,14,15]

a) 1st[-1:] b) 1st[-1::]

c) 1st[:-1] d) 1st[::-1]

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**7)** What is the output of the following code?

''ba''+''na''\*2

a) banana b) bana2

c) ba2na d) error

**8)** The \_\_\_\_\_ is correct wav to call base class constructor.

a) base.init() b) base().\_init\_()

c) super.init() d) super().\_init\_()

**9)** The \_\_\_\_\_ method is used to read entire file.

a) read() b) readline()

c) readlines() d) seek()

**10)** The Lambda functions are used along with \_\_\_\_\_ built-in functions.

a) any() b) insert()

c) discard() d) map()

**B) Fill in the Blanks. 06**

1) \_\_\_\_\_ model is used to find patterns.

2) The first parameter for every class method is \_\_\_\_\_\_.

3) The \_\_\_\_\_ function is used to select random element from the

given sequence.

4) The \_\_\_\_\_ function is used to add new attribute in class.

5) The \_\_\_\_\_ exception is raised when a function gets argument of

correct type but improper value.

6) MRO stands for \_\_\_\_\_\_.

**Q.2 Answer the followings. (Any Eight): 16**

**1)** What isa nested dictionary? Give example.

**2)** Write down the difference between set and frozen set.

**3)** Write down different string formatter with example.

**4)** What is docstring?

**5)** What are use of type and id function?

**6)** What is use of assert statement? Give example.

**7)** Create any module and use it.

**8)** What is Anonymous functions? How to create Anonymous functions?

**9)** How to create a constructor and destructor in python? Give example.

**10)** List all file properties with example.

**Q.3 A) Answer the followings (Any two): 10**

1) Create a binary file with 1000 random numbers. Also, write code

for reading that file.

2) What is an abstract class? Explain with an example.

3) Write a regular expression for the password, email, pin code

number, and URL validation.

**B)** Why MRO is used? Explain MRO with an example. **06**

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**Q.4 A) Answer the followings (Any two): 08**

1) Differentiate list and tuples. Explain any four methods of tuples.

2) Explain regular expression's compile method with an example.

3) What are operations with the set? Explain with an example.

**B)** What is exception handling? Explain how to create user define

exceptions with the creation of any two user-defined exceptions.

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**Q.5 Answer the following (Any Two). 16**

**a)** What is inheritance? Explain all types of inheritance with example.

**b)** What are variable-length arguments? Explain all types with example.

**c)** What is operator overloading? Explain operator overloading and

overload any two comparison operators.