## [This question paper contains 8 printed pages.]

## Your Roll No. 23020107005

Sr. No. of Question Paper: 1314

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Unique Paper Code

: 6202451101

Name of the Paper

: Programming using Python

Name of the Course

: B.Voc.

Semester

Duration: 2 Hours

Maximum Marks: 60

## Instructions for Candidates

- Write your Roll No. on the top immediately on receipt of this question paper.
- Attempt total 4 questions. Q1 is compulsory to attend. Rest, Attempt any 3 questions more. (15×4=60)
- (a) Name the Python Library modules which need to be imported to invoke the following functions:

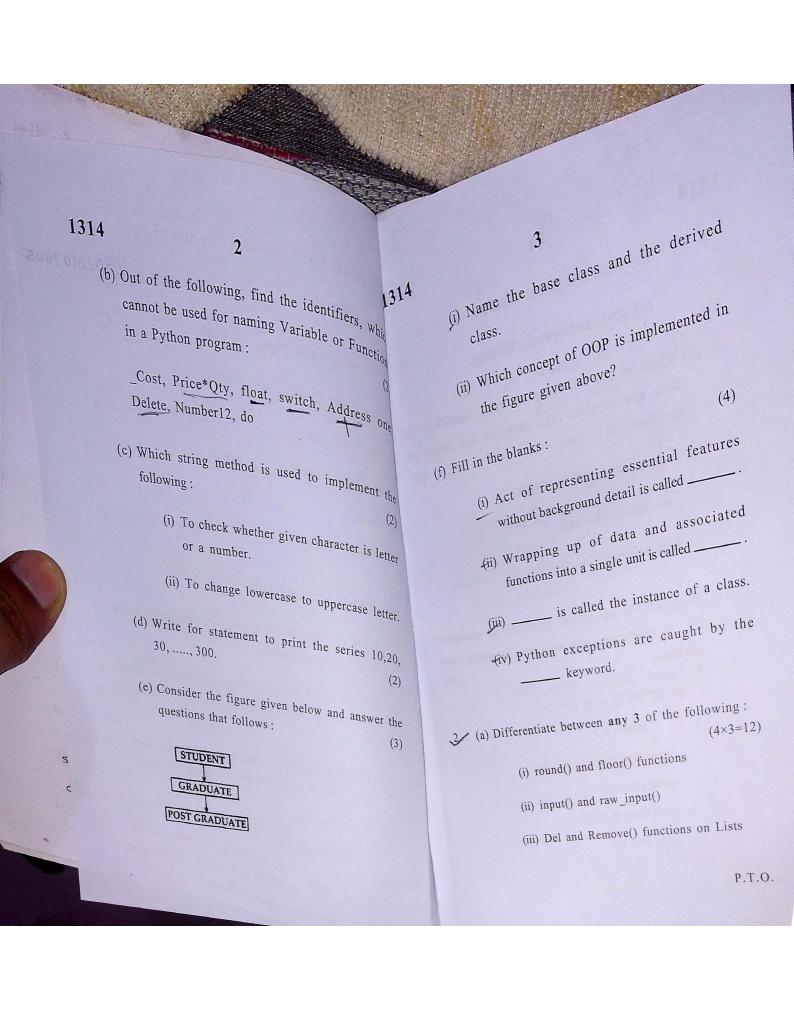
(i) sqrt()

(ii) dump()

(2)

P.T.O.

(i) Name the base class and the derived (ii) Which concept of OOP is implemented in 314 the figure given above? (4) (i) Act of representing essential features (f) Fill in the blanks: without background detail is called -(ii) Wrapping up of data and associated functions into a single unit is called -\_ is called the instance of a class. (iv) Python exceptions are caught by the (iii) keyword. 2/ (a) Differentiate between any 3 of the following:  $(4 \times 3 = 12)$ (i) round() and floor() functions (ii) input() and raw\_input() (iii) Del and Remove() functions on Lists P.T.O.



- (iv) local and global variables
- (v) static and dynamic binding
- (b) Which of the following are valid identifiers? If they are invalid, then mention the cause of violation.
  - (i) #ofElements
  - (ii) No of elements
  - (iii) 3elements
- 3 (a) What will be the output produced on execution of the following code segments? Justify your answers.

(i) def fun (a = 0, b = 1):

return a b

print (fun (5, 6))

print (fun (6))

print (fun (b = 5))

print (fun ())

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(ii) def m(s): for i in range (len (s)): if i % 2 == 0: ans += s[i]

return ans

print (m('HelloWorld'))

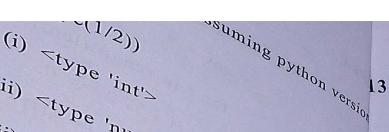
(b) Write a program to find all the prime numbers up

to a given number.

4. (a) Multiple Choice Questions: 1. Which of the following i python typle?

- (i) [1,2,3]
- (ii) (1,2,3)
- (iii) {1,2,3}
- (iv) {}

P.T.O.



- (ii)  $\forall t_{ype'number' }$
- (iii)  $<_{type 'tuple' >}$ (jv) <type 'float'>
- 3. Which of these in not a core data type? (ii) Dictionary
  - (iii) Typle
  - (iv) Class
- 4. Python is \_\_\_\_\_ language.
  - (i) Compiled
  - (ii) Procedure
  - (iii) Interpreted
  - (iv) Non-Interactive

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- 5. To add a new element to the list, we use which command?
  - (i) list1.add (5)
  - (ii) list1.append (5)
  - (iii) list1.addLast (5)
  - (iv) list1.addEnd (5)
- (b) Short notes:

 $(2.5 \times 2 = 5)$ 

- (i) Describe module in Python with its advantages?
- (ii) Explain different modes of opening a file.
- (a) Explain different categories of operators used in python each with the help of an example.

(10)

- (b) Design a python program which will throw exception if the value entered by user is less than (5) zero.
- (a) Illustrate the use of method overriding? Explain (5) with example.

P.T.O.

(b) Show how try...except blocks is used for exception handling in Python with example. (5)

(c) What is the Purpose of the Pass Statement? Illustrate with example. (5)