

Reg. No. :

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Question Paper Code: 51293

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

ONE CREDIT COURSE

Computer Science and Engineering

15UCS863 - PYTHON PROGRAMMING

(Regulation 2015)

Duration: One hour

Maximum: 50 Marks

Answer ALL Questions

PART A - (20 x 1 = 20 Marks)

- Which of these is not a core datatype?
(a) Lists (b) Dictionary (c) Tuples (d) Class
- In order to store values in terms of key and value we use what core datatype.
(a) List (b) tuple (c) class (d) dictionary
- What is `list("abcd")`?
(a) `['a', 'b', 'c', 'd']` (b) `['ab']`
(c) `['cd']` (d) `['abcd']`
- Suppose `list1` is `[3, 4, 5, 20, 5, 25, 1, 3]`, what is `len(list1)`?
(a) 6 (b) 7 (c) 8 (d) 5
- Which of the following is not a complex number?
(a) `k = 2 + 3j` (b) `k = complex(2, 3)`
(c) `k = 2 + 3l` (d) `k = 2 + 3J`
- What is the output of the following?

```
x = ['ab', 'cd']  
for i in x:  
    i.upper()  
  
print(x)
```

- (a) ['ab', 'cd'] (b) ['AB', 'CD']
(c) [None, None] (d) none of these

7. To insert 5 to the third position in list1, use

- (a) list1.insert(3, 5) (b) list1.insert(2, 5)
(c) list1.add(3, 5) (d) list1.append(3, 5)

8. Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.extend([34, 5])?

- (a) [3, 4, 5, 20, 5, 25, 1, 3, 34, 5] (b) [1, 3, 3, 4, 5, 5, 20, 25, 34, 5]
(c) [25, 20, 5, 5, 4, 3, 3, 1, 34, 5] (d) [1, 3, 4, 5, 20, 5, 25, 3, 34, 5]

9. What is the output when we execute?

```
>>>list("hello")
```

- (a) ['h', 'e', 'l', 'l', 'o'] (b) ['hello']
(c) ['llo'] (d) ['olleh']

10. What is the output?

```
>>>d = {"john":40, "peter":45}
```

```
>>>d["john"]
```

- (a) 40 (b) 45 (c) "john" (d) "peter"

11. If a function does not return a value, by default, it returns

- (a) None (b) int (c) double (d) public E) null

12. Suppose list1 is [1, 3, 2], what is sum(list1)?

- (a) 5 (b) 4 (c) 6 (d) 2

13. Which of the following statements create a dictionary?

- (a) d = (b) d = {"john":40, "peter":45}
(c) d = {40:"john", 45:"peter"} (d) d = (40:"john", 45:"peter")

14. Suppose d = {"john":40, "peter":45}, the keys are

- (a) "john", 40, 45, and "peter" (b) "john" and "peter"
(c) 40 and 45 (d) d = (40:"john", 45:"peter")

15. What is the type of sys.argv?

- (a) set (b) list (c) tuple (d) string

16. What is the output of the following?

```
>>>print([i.lower() for i in "HELLO"])
```

- (a) ['h', 'e', 'l', 'l', 'o'] (b) 'hello'
(c) ['hello'] (d) hello

17. What is len("Good")?

- (a) 1 (b) 2 (c) 3 (d) 4

18. What is max("Programming is fun")?

- (a) P (b) r
(c) a blank space character (d) u

19. What is k after invoking nPrint("A message", k)?

- (a) 0 (b) 1 (c) 2 (d) 3

20. To check whether an object o is an instance of class A, use

- (a) o.isinstance(A) (b) A.isinstance(o)
(c) isinstance(o,A) (d) isinstance(A, o)

PART - B (2 x 15 = 30 Marks)

21. (a) (i) Write about features of Python. (5)
(ii) Illustrate how to work with dictionaries in Python with suitable example. (10)

Or

- (b) (i) Write short notes on String handling functions in Python. (7)
(ii) Explain the various ways of passing parameters to function in Python. (8)

22. (a) (i) Discuss how objects are created using constructors in Python. (7)
(ii) Demonstrate operator overloading in Python. (8)

Or

- (b) Define Inheritance. Illustrate multiple inheritance and method overriding are supported in Python. (15)