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**Question Paper Code: 58023**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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)

- You can use \_\_\_\_\_ to create an empty set.  
(a) [ ]                      (b) ( )                      (c) { }                      (d) set()
- What is min(3, 5, 1, 7, 4)?  
(a) 1                      (b) 3                      (c) 5                      (d)
- Suppose t = (1, 2, 4, 3), which of the following is incorrect?  
(a) print(t[3])                      (b) t[3] = 45  
(c) print(max(t))                      (d) print(len(t))
- What is the output when we execute?  

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

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

```
def writer():
```

*title = 'Sir'*

*name = (lambda x:title + '' + x)*

*return name*

*who = writer()*

*who('Arthur')*

- (a) Arthur Sir
- (b) Sir Arthur
- (c) Arthur
- (d) none of these

7. Which of the following function gets the length of the string?

- (a) isupper()
- (b) join(seq)
- (c) len(string)
- (d) ljust(width[, fillchar])

8. \_\_\_\_\_ represents an entity in the real world that can be distinctly identified.

- (a) A class
- (b) An object
- (c) A method
- (d) A data field

9. Which of the following statement is most accurate?

- (a) A reference variable is an object
- (b) A reference variable refers to an object
- (c) An object may contain other objects
- (d) An object may contain the references of other objects

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 relationship is appropriate for Student and Person?
- (a) association    (b) composition  
(c) inheritance    (d) object
17. What is `len("Good")`?
- (a) 1                      (b) 2                      (c) 3                      (d) 4
18. 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)`
19. What is `k` after invoking `nPrint("A message", k)`?
- (a) 0                      (b) 1                      (c) 2                      (d) 3
20. Which of the following function checks in a string that all characters are alphanumeric?
- (a) `shuffle(lst)`    (b) `capitalize()`  
(c) `isalnum()`    (d) `isdigit()`

PART - B (2 x 15 = 30 Marks)

21. (a) (i) Write a Python script to find the Fibonacci sequence for `n` numbers.                      (8)  
(ii) Write about features of Python.                      (7)

Or

- (b) (i) Write a Python program to convert temperatures to and from Celsius, Fahrenheit.                      (7)  
(ii) Demonstrate the various forms of using `print()` function in python.                      (8)

22. (a) Briefly discuss about the data types supported by Python.                      (15)

Or

- (b) Illustrate how to work with dictionaries and List in Python with suitable example.                      (15)

