



Seat No. \_\_\_\_\_

**HB-003-1036003**

**B. C. A. (Sem. VI) (CBCS) (W.E.F. 2016) Examination**

**April - 2023**

**Programming in Python : CS-33**

**Faculty Code : 003**

**Subject Code : 1036003**

Time :  $2\frac{1}{2}$  / Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) IDLE stand for \_\_\_\_\_
  - (2) Who is the developer of python ?
  - (3) The \_\_\_\_\_ symbol is a shell prompt in python.
  - (4) \_\_\_\_\_ method read string from the an open file in python.
- (b) Attempt the following : (any one) 2
- (1) Explain Recursion in python.
  - (2) Explain tuple with example.
- (c) Attempt the following : (any one) 3
- (1) What is Module ? Explain with example.
  - (2) What is function specification ? Explain with example.
- (d) Attempt the following : (any one) 5
- (1) Explain Iteration statements in Python.
  - (2) Explain branching statement in Python.
- 2 (a) Attempt the following : 4
- (1) \_\_\_\_\_ exception catch all exception in python.
  - (2) ADT stands for \_\_\_\_\_
  - (3) \_\_\_\_\_ has a brief description about the class.
  - (4) \_\_\_\_\_ error is raised when division or modulo by zero takes a place for all numeric types.
- (b) Attempt the following : (any one) 2
- (1) What is 'self' in python ? Explain with example.
  - (2) Explain binary search with example.
- (c) Attempt the following : (any one) 3
- (1) Explain Hash table with example.
  - (2) Explain Quick sort with example.
- (d) Attempt the following : (any one) 5
- (1) What is encapsulation ? Explain with example.
  - (2) Explain Handling Exception in python.

- 3** (a) Attempt the following : **4**
- (1) PyLab is embedded with \_\_\_\_\_ module of python.
  - (2) Give full form of png.
  - (3) Dynamic programming is mainly an optimization over plain \_\_\_\_\_.
  - (4) \_\_\_\_\_ function is used to display chart/figure.
- (b) Attempt the following : (any one) **2**
- (1) Explain figure () function in python.
  - (2) Explain plot() function in python.
- (c) Attempt the following : (any one) **3**
- (1) Explain pylab. title, pylab.xlabel and pylab.ylabel.
  - (2) Explain Fibonacci sequence.
- (d) Attempt the following : (any one) **5**
- (1) Explain 0/1 Knapsak problem.
  - (2) Explain divide and conquer algorithm.
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- 4** (a) Attempt the following : **4**
- (1) JSON stand for \_\_\_\_\_.
  - (2) CSV stand for \_\_\_\_\_.
  - (3) R3egEx stand for \_\_\_\_\_.
  - (4) If there is no match \_\_\_\_\_ will be returned, instead of the Match object.
- (b) Attempt the following : (any one) **2**
- (1) List out all flags modifier with single line meaning.
  - (2) Search () v/s findall() in python.
- (c) Attempt the following : (any one) **3**
- (1) Explain loads () and dumps () method of JSON with example.
  - (2) Explain meta characters with single line meaning.
- (d) Attempt the following : (any one) **5**
- (1) Explain ElementTree with XML python.
  - (2) Explain Match Object with its property and methods.
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- 5** (a) Attempt the following : **4**
- (1) ROC stand for \_\_\_\_\_
  - (2) MAE stand for \_\_\_\_\_
  - (3) AUC stand for \_\_\_\_\_
  - (4) MSE stand for \_\_\_\_\_

- (b) Attempt the following : (any one) **2**
    - (1) Explain Head() function in python.
    - (2) Explain tail () function in python.
  - (c) Attempt the following : (any one) **3**
    - (1) Big Data v/s Large Data
    - (2) Simple Model v/s Complex Model
  - (d) Attempt the following : (any one) **5**
    - (1) Explain Predictive Model Building Stages.
    - (2) Explain Assessing Performance of Predictive Model
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