Seat No.
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BACHELOR OF COMPUTER APPLICATION (W.E.F. 2016) Examination

BCA (2016) Semester-6 March-2024

CS-33 PROGRAMMING IN PYTHON

Faculty Code : 003

Subject Code : 003-1036003

Time : 2.5Hours]   **[Total Marks : 70**

1   (a) Attempt the following :   4

    1   PVM stands for _____

    2   Which function is used to count the substring?

    3   List out standard data types of Python.

    4   List out string operators.

   (b) Attempt any one :   2

    1   Explain the if statement.

    2   What is a global variable?

   (c) Attempt any one :   3

    1   Explain modes of opening files.

    2   Explain the Python identifier.

   (d) Attempt any one :   5

    1   Explain the advantages and disadvantages of Python.

    2   Explain the function in detail.

2   (a) Attempt the following :   4

    1   Wrapping data into a single unit is called _____

    2   What is a Python function?

    3   Which keyword is used to define a user define a function?

    4   List out different sorting algorithms.

   (b) Attempt any one :   2

    1   Explain the hash table.

    2   What is Exception?

(c) Attempt any one :   3

1   Explain the assert statement.

2   Explain capitalize() and count().

(d) Attempt any one :   5

1   Explain linear search with an example.

2   Explain class inheritance with an example.

3   (a) Attempt the following :   4

1   Pl.plot(x,y,'r') here r means _____

2   Pl.plot(x,y,'- -') here - - means _____

3   Which method is used to show the informative titles?

4   Which method is used to display the graph on screen?

(b) Attempt any one :   2

1   What is pylab?

2   What is divide?

(c) Attempt any one :   3

1   What is an overlapping subproblem?

2   Explain the Fibonacci sequence revisited.

(d)Attempt any one :   5

1   Differentiate between divide & conquer and dynamic programming.

2   Write a python script of compound interest and plot it on graph.

4   (a) Attempt the following :   4

1   Full form of JSON.

2   Full form of XML

3   Which library is imported for regular expression?

4   Which metacharacter is used for zero or more occurrences?

(b) Attempt any one :   2

1   Write a Python script to read .csv file?

2   What is regular expression?

(c) Attempt any one :   3

1   Explain serialization and deserialization.

2   Explain greedy v/s non-greedy matching.

(d) Attempt any one :   5

1   Explain HTML generators.

2   Explain logging in Python.

5   (a) Attempt the following :   4

1   Which package is used for data analysis and manipulation?

2   Which function is used to fill and handle missing data in dataframes?

3   Who invented dynamic programming?

4   What is a data frame?

(b) Attempt any one :   2

1   Explain the classification problem.

2   Write down items to check of new data set.

(c) Attempt any one :   3

1   Write a script of a data frame with graph.

2   Explain linear and non linear algorithm.

(d) Attempt any one :   5

1   Explain predictive modelling

2   Explain big data in detail