

| Sr. | Unit No. | Question  | BL | CO   |
|-----|----------|---|----|------|
| 1   | 1        | Explain features of python programming language.  | U  | CO-1 |
| 2   |          | Explain Indention in python with example.   | U  | CO-1 |
| 3   |          | Explain input() and print() function with example.  | U  | CO-1 |
| 4   |          | List out the naming convention for python variable names.   | R  | CO-1 |
| 5   |          | Is String is Mutable in python ? Explain String Handling Functions with example.                  | U  | CO-1 |
| 6   |          | Explain String Slicing With example.  | U  | CO-1 |
| 7   |          | Explain List Comprehension with example.  | U  | CO-1 |
| 8   |          | Differentiate List, Set, Tuple and Dictionary.  | R  | CO-1 |
| 9   |          | Explain List methods with example.  | U  | CO-1 |
| 10  |          | Explain magic command in details.   | U  | CO-1 |
| 11  | 2        | Explain Membership operator with example.   | U  | CO-2 |
| 12  |          | Explain Identity operator with example.   | U  | CO-2 |
| 13  |          | Explain branching statement with example.   | U  | CO-2 |
| 14  |          | Explain looping statement with example.   | U  | CO-2 |
| 15  |          | Explain for loop with else statement.   | U  | CO-2 |
| 16  |          | Explain rang() method with example.   | U  | CO-2 |
| 17  |          | Explain tuple unpacking with example.   | U  | CO-2 |
| 18  |          | Explain break, continue and pass keywords with example.   | U  | CO-2 |
| 19  |          | Explain types of function arguments with example.   | U  | CO-2 |
| 20  |          | Explain scope of a variable with example.   | U  | CO-2 |
| 21  |          | Explain lambda function with example.   | U  | CO-2 |
| 22  |          | State the properties of recursion and explain recursion with example.                             | U  | CO-2 |
| 23  |          | Explain map, filter and reduce with example.  | U  | CO-2 |
| 24  | 3        | Explain open(), read() and readlines() with example.  | U  | CO-3 |
| 25  |          | Explain tell(), seek(), write() with example.   | U  | CO-3 |
| 26  |          | Explain file access mode with example.  | U  | CO-3 |
| 27  |          | What is Exception ? Explain Exception handling with example.                                      | U  | CO-3 |
| 28  |          | Explain built in Exception of python.   | U  | CO-3 |
| 29  |          | Explain try, except and else keywords with example.   | U  | CO-3 |
| 30  |          | Explain finally keyword with example.   | U  | CO-3 |
| 31  |          | Explain Exception's arguments with example.   | U  | CO-3 |
| 32  |          | Explain how to handle multiple exceptions.  | U  | CO-3 |
| 33  |          | Explain user defined exception with example.  | U  | CO-3 |
| 34  |          | Explain how to raise any exception.   | U  | CO-3 |
| 35  | 4        | What is Module ? Explain different way to import a module.  | U  | CO-4 |
| 36  |          | Explain any seven function from random module.  | U  | CO-4 |
| 37  |          | Explain any seven function from math module.  | U  | CO-4 |
| 38  |          | Explain date and time class of datetime module.   | U  | CO-4 |
| 39  |          | Explain datetime and timedelta class of datetime module.  | U  | CO-4 |
| 40  |          | Explain strptime() and strftime() with example. OR Explain date and time formatting with example. | U  | CO-4 |
| 41  |          | What is matplotlib? Explain pyplot with example.  | U  | CO-4 |
| 42  |          | Explain Axis, Ticks and Grid in matplotlib.   | U  | CO-4 |
| 43  |          | Explain Line Appearance in matplotlib.  | U  | CO-4 |
| 44  |          | Explain way to export graph in matplotlib.  | U  | CO-4 |
| 45  |          | Explain Labels, Annotation and Legends in matplotlib.   | U  | CO-4 |
| 46  |          | Explain pie chart with suitable example.  | U  | CO-4 |
| 47  |          | Explain bar chart with suitable example.  | U  | CO-4 |

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| 48 |   | Explain Histograms with suitable example.                      | U | CO-4 |
| 49 |   | Explain Boxplots, Scatter and NetworkX with suitable example.  | U | CO-4 |
| 50 |   | What OOP? Explain syntax for OOP with python programming.      | U | CO-4 |
| 51 | 5 | Explain Self parameter with example.                           | U | CO-5 |
| 52 |   | Explain <code>__init__()</code> with example.                  | U | CO-5 |
| 53 |   | Differentiate class attribute and instance attribute.          | U | CO-5 |
| 54 |   | Explain how to define variable as public, private, protected.  | U | CO-5 |
| 55 |   | Explain instance, class and static method with example.        | U | CO-5 |
| 56 |   | Explain how to pass object as function argument                | U | CO-5 |
| 57 |   | What is inheritance? Explain it with example.                  | U | CO-5 |
| 58 |   | What is polymorphism? Explain it with example.                 | U | CO-5 |
| 59 |   | Explain <code>super()</code> method with example.              | U | CO-5 |
| 60 |   | What is abstract class ? Explain abstract method with example. | U | CO-5 |