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Question Paper Code: AITB01



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

Four Year B.Tech III Semester End Examinations(Regular) - November, 2019  
Regulation: IARE – R18

**OBJECT ORIENTED PROGRAMMING THROUGH PYTHON**

**Time: 3 Hours**

**(Common to CSE | IT)**

**Max Marks: 70**

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**Answer ONE Question from each Unit**

**All Questions Carry Equal Marks**

**All parts of the question must be answered in one place only**

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**UNIT – I**

1. (a) Explain in detail about the various operators in Python with suitable examples. [7M]  
(b) Write a short note on built-in class attributes? Explain about objects in Python. [7M]
2. (a) What are the different data types available in Python explain in detail. [7M]  
(b) Explain in detail with example control statements in Python. [7M]

**UNIT – II**

3. (a) Demonstrate the accessing of private members of parent class in single inheritance using examples. [7M]  
(b) Discuss the role super() method in multiple inheritance in Python with suitable example. [7M]
4. (a) What is inheritance? Explain with example and write a program for representing inheritance. [7M]  
(b) What is a namespace? How do you resolve the name conflicts using namespaces? Explain with an example. [7M]

**UNIT – III**

5. (a) Explain, how to define a user defined function in Python with suitable example? [7M]  
(b) Write the procedure to use arbitrary/variable-length arguments in Python functions with example. [7M]
6. (a) Differentiate a function and a method in Python with example. List the escape characters that can be used in strings. [7M]  
(b) How to return multiple values from a function in Python? Explain with example. [7M]

#### UNIT – IV

7. (a) Write a procedure to define user-defined exceptions in Python with example. [7M]  
(b) Explain in detail about exception handling in Python using try....except...finally? Write a Python program to “Try to open and write to a file that is not writable” using try....except...finally. [7M]
8. (a) How the except clause can handle multiple exceptions and explain it with suitable example. [7M]  
(b) Write a python program which converts a temperature from degrees Kelvin to degrees Fahrenheit. If assertions fails, Python should raise an assertion error exception. [7M]

#### UNIT – V

9. (a) Define container. Write the working procedure of containers. [7M]  
(b) How to create a label widget? Explain with an example. [7M]
10. (a) Explain with an example text widget and radio button in Python. Write the Python code for text widget. [7M]  
(b) Distinguish message widget and text widget. Explain with an example how to arrange widgets in a frame. [7M]