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**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

**M.Tech (Int.)**

**FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)**

**(Subjective Type)**

**Subject Code: AMICSE0202**

**Max. Mks. : 30**

**Subject: Problem Solving using Advanced Python**

**Time : 50 Minutes**

**General Instructions:**

*All questions are compulsory.*

*Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.*

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Differentiate between class variable and instance variable.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	Discuss magic methods used in python.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	What do you understand by parameterized constructor?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	What is the use of super() function?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	What is the use of __init__ () method in Python?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	How to check if a class is subclass of another class?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	What is the difference between an Iterator and Iterable?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	What do you understand by Python Generators?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
9	What do you understand by functional programming?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
10	How to change the color upon hovering over button in Tkinter.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	How to automatically close window after a certain time in tkinter.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
12	What is the purpose of tkinter library in python?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	How to transpose a DataFrame?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	What is a Series in Pandas?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	What are the significant features of the pandas Library?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant