

II B. Tech I Semester Supplementary Examinations, March - 2021**PYTHON PROGRAMMING**

(Com to CSE & IT)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)2. Answer **ALL** the question in **Part-A**3. Answer any **FOUR** Questions from **Part-B**

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**PART -A**

1. a) Expand REPL. What does it mean? (2M)
- b) Differentiate between break and continue statements. (2M)
- c) How to convert a string to a list in Python? (2M)
- d) How functions help in reducing redundancy? (2M)
- e) Define polymorphism. Give an example. (3M)
- f) Write a Python program to get OS name, platform and release information. (3M)

**PART -B**

2. a) Why Python is getting an edge over other languages in IT industry and research? Give a detailed reasoning. (7M)
- b) What are the core data types supported by Python? Explain how to convert one type into another, with examples. (7M)
3. a) Write a Python program to print sum of first 60 non-prime numbers. (8M)
- b) List the functional differences between while and for loops. (6M)
4. a) What is list comprehension? Explain with at least 3 different examples. (7M)
- b) Write a Python program that sorts a dictionary by its values. (7M)
5. a) Explain how to create a user defined module in Python. (7M)
- b) Write a Python script to convert given decimal number to binary using recursion. (7M)
6. a) Explain about built-in attribute methods in Python. (7M)
- b) How method overriding works in Python? Explain with an example. (7M)
7. a) Explain about different pen, color and fill methods available in turtle module. (7M)
- b) Using datetime module, write a Python program to print 58<sup>th</sup> day after today. Also print which day of the week and year that day is. (Eg. 14 Nov 2017 Tuesday 318<sup>th</sup> day of 2017) (7M)