

II B. TECH II SEMESTER REGULAR EXAMINATIONS, AUG/SEPT 2021
PYTHON PROGRAMMING
(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

Note: Answer **ONE** question from each Unit (**5 × 12 = 60 Marks**)

UNIT - I

1. a) Write a Program to read the radius of circle and print the area of circle. [6M]
- b) Write a Program to initialize a string "hello world" to a variable str1 and convert the string to upper case. [6M]

(OR)

2. a) Write a program to read a four-digit number from the keyboard and calculate the sum of its digits. [6M]
- b) Explain about bitwise and relational operators in python. [6M]

UNIT – II

3. a) Write a program in terms of if-else statement in python: [6M]
If temperature greater than 50 then temperature is hot, otherwise temperature is cold.
- b) Illustrate nested if statement with suitable example. [6M]

(OR)

4. a) When is the break statement used in python? [6M]
- b) When the continue statement is used in python? [6M]

UNIT – III

5. a) Differentiate between user defined and library defined functions? [6M]
- b) What is the use of a return statement in python, explain with simple program? [6M]

(OR)

6. a) What are the advantages of functions? [6M]
- b) What are arguments? Explain how the arguments passed to a function with a simple program. [6M]

UNIT –IV

7. a) State the syntax to define a class? [6M]
- b) How are attributes added to class, show with a simple python program? [6M]

(OR)

8. a) What is self parameter and list its uses? [6M]
- b) What can be done with overriding a method, show with a small program? [6M]

UNIT –V

9. a) Differentiate between error and exception? How to handle exceptions in python? [6M]
 - b) Define NumPy array ? List the advantages of NumPy array over nested lists ? [6M]
- (OR)
10. a) Explain about try expect block in python? [6M]
 - b) Explain user defined exceptions in python? [6M]

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