MID TERM EXAMINATIONS –November 2024

Programme	: B.Tech.		
Course Title	: Python Programming	Semester	: Interim Semester 2024-
Course Code	: CSE3011		
Date/Session	: 13 Nov 2024/Session I		
		Slot	: B11+B12
Time	: 1 ½ hours	Max. Marks	: 50

Answer all the Questions

Q.No.	Sub. Sec.	Question Description	Marks
1	a)	Describe about string slicing? Provide an example of slicing a string in Python. - 4M	10
	b)	Create a Python program to find the minimum length of the given three strings without using inbuilt functions. - 6M	
2	a)	Evaluate the following expression $4\wedge2<<3+48//24$ based on the precedence and associativity of the operators. –6M	10
	b)	Create a python program to convert temperature from Fahrenheit to Celsius –4M	
3	a)	Create a python programming to calculate the total bill value including GST (CGST & SGST -12%).–5M	10

S.No	Product	Product Value
1	Kukure	120
2	Brittania Cake	60
3	Oreao-Chocolate Biscuits	40
4	Lassi	35

| | b) | Write a Python program for the following scenario: Let the first three numbers of the series be 0, 1, 1, 2, 3... Write a code to generate the 100th number of this series.–5M | |
| 4 | a) | Write a program to display the pattern given below–5M | 10 |

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      *
    * *
  * * *
* * * *
* * *
  * *
    *
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| | b) | Write a python program to check the validity of passwords input by users–5M | |

i. At least 1 letter between [a-z] and one letter between [A-Z]

ii. At least one number between [0-9]

iii. At least one character from [$#@]

iv. Minimum length 6 characters

v. Maximum length 16 characters

5

a) Differentiate public, protected, and private attributes. –2M

b) Create a Python class Book that represents a book in a library system. The class should include the following:–8M

- Public Attribute: title
- Protected Attribute: author
- Private Attribute: ISBN
- Protected Method: update author details
- Private Method: get ISBN number