



MID TERM EXAMINATIONS – July 2024

Programme	: B.Tech.	Semester	: Fall Semester 2024-2025
Course Title	: Python Programming	Course Code	: CSE3011
Date/Session	: 15 July 2024/ Session I	Slot	: B11+B12+E11+E12
Time	: 1 ½ hours	Max. Marks	: 50

Answer all the Questions

Q.No.	Sub. Sec.	Question Description	Marks
1		Discuss the string object in python. Write a program to take input of date of birth in dd/mm/yyyy format and considering 18 year as eligibility for the driving licence, recommend that the applicant is eligible or not for driving licence.	10
2	(a)	Lucas numbers is given by $L(n) = L(n - 1) + L(n - 2)$ for $n \geq 2$ , with $L(0) = 2$ and $L(1) = 1$ . Write a program to print the Lucas number for $n = 11$ .	5
	(b)	Write a program to take input sides of triangles and print that triangle of given side is possible or not possible based on triangle inequality theorem (the sum of any two sides of a triangle is greater than or equal to the third side).	5
3		Write a program to create a dictionary for the hospital containing 5 element, birth certificate no. as the key and gender as value. After a day one more girl has taken birth. Display the number of births of boys and girls in the hospital. If any birth certificate no is searched in the dictionary and not present then display the default value "Not born in this hospital". Also find the list of certificate no the girl child born in the hospital to recommend for the MP Ladli Laxmi Yojna.	10
4		Discuss about function and its parameter. Give syntax and condition to pass default parameter. Create a function to calculate parameter of a triangle. The function can be called by passing one (equilateral triangle), two (isosceles triangle) or three (scalene triangle) sides as parameter. The function will return the parameter of the triangle.	10
5		Explain inheritance paradigm in OOPs. Write a program to create a class named <b>Car</b> having the attribute <b>brand</b> , <b>model</b> . Write a function <b>detail()</b> to display brand and model. Create another class named <b>HybridCar</b> inheriting the class <b>Car</b> and have attribute <b>fuel1</b> and <b>fuel2</b> . Define a function <b>choice()</b> which will display the choice of <b>fuel1</b> and <b>fuel2</b> . Please create an object of type <b>HybridCar</b> and call function <b>detail()</b> and <b>choice()</b> .	10

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