Total No. of Questions – [4]

Total No. of Printed Pages: [2]

PRN. No.	

PAPER CODE	V114-343 (Backlog)

DECEMBER 2024 (Backlog) EXAM Sem-I

F.Y. BTECH. (CSE) – ARTIFICIAL INTELLIGENCE

(PATTERN 2023)

COURSE NAME: INTRODUCTION TO PROGRAMMING

COURSE CODE: CA11235

Time: [2Hr] **[Max. Marks: 60]**

(*) Instructions to candidates:

1) **Use of scientific calculator is allowed**
2) **Use suitable data where ever required**
3) **All questions are compulsory. Solve any THREE sub questions from EACH question**

Que. No.	Question Description	Max. Marks	CO mapped	BT Level
Q1.	**Solve any three sub questions from the following**			
	A) Explain parameter passing to a function with example.	**[5]**	CO1	U
	B) Illustrate unary operators with example.	**[5]**	CO1	U
	C) Compare different data types declaration in C.	**[5]**	CO1	U
	D) Can we pass parameter to main() if yes demonstrate with example.	**[5]**	CO1	U
Q2.	**Solve any three sub questions from the following**			
	A) Illustrate do while with example.	**[5]**	CO2	U
	B) Describe if then else with example.	**[5]**	CO2	U
	C) Explain nested for loop with example.	**[5]**	CO2	U
	D) Identify and explain switch case example.	**[5]**	CO2	U
Q3.	**Solve any three sub questions from the following**			
	A) Compare different access specifiers we can use for members of a class.	**[5]**	CO3	U
	B) Differentiate Private and Public access specifier used while extending a class.	**[5]**	CO3	A
	C) Construct a program to print table of 2 in reverse order. [Example: 20 18 16 14 12 10 8 6 4 2]	**[5]**	CO3	A
	D) Construct program to accept year from user and check whether it is leap year or not.	**[5]**	CO3	A

Q4.	**Solve any three sub questions from the following**			
	A) Explain polymorphism with an example.	**[5]**	CO4	U
	B) Construct a program to print the starting 25 prime number	**[5]**	CO4	A
	C) Construct a program to accept a number in main() and pass it to function evenodd() which checks number is even or odd, function returns 1 if number is even and it returns 0, if number is odd, print the message in main().	**[5]**	CO4	A
	D) Construct a program to read number from user and print number of digits in that number. [Example: input:1234; output:4, input:78; output:2]	**[5]**	CO4	A