Total No. of Questions - [2]

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G.R. No.	

PAPER CODE U124 - 313

## March 2024 (INSEM) EXAM

F.Y.B. TECH. (AI and DS) (SEMESTER - II)

**COURSE NAME: Problem Solving and Programming** 

**COURSE CODE: ADUA12234** 

(PATTERN 2023)

Time: [40 min]

[Max. Marks: 20]

- (\*) Instructions to candidates:
- 1) Figures to the right indicate full marks.
- 2) Use of scientific calculator is allowed
- 3) Use suitable data wherever required
- 4) Solve any two sub questions from Question 1 and 2

Question	Question Description	Marks	СО	Blooms
No.			mapped	Taxonomy
				Level
Q.1	a) Define the concept of problem solving steps using computer?	[5]	CO1	Understand
	b) Write down the algorithm and draw the flowchart to convert Celsius to Fahrenheit temperature?	[5]	CO1	Apply
	c) Write the difference between linear search and binary search with time complexity?	[5]	CO1	Understand
Q2	a) What will be the output of the following Python code? string1= "ABCDEFGHIJKLMNOP" print(string1[1:7:2]) print(string1[-1:-10]) print(string1[7:-15:-1]) print(string1[-5:-16:-2]) print(string1[-1:-10:-3])	[5]	CO2	Apply
	b) State Membership, Identity ,bitwise AND and bitwise OR operator with example and its respective output	[5]	CO2	Understand
	c) str1="Problem Solving and Programming" write down the code to display following output Pol	[5]	CO2	Apply
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