

Enroll No

K.E.Society's
Rajarambapu Institute of Technology, Rajaramnagar
(An Empowered Autonomous Institute, affiliated to SUK)
Unit Test -I (2025-26)
F.Y.BCA

Q.P. Code
UTB476

Course Code: BC103

Course Name: Problem Solving Techniques

Day & Date: Wednesday 15/10/2025

Time: 10:30 AM to 11:30 AM

Max Marks- 25

- Instructions:**
- 1) All questions are compulsory.
 - 2) Figures in rounded () brackets within the question, indicate the scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.
 - 3) CO is the index number of the Course Outcome statement.
 - 4) The Bloom's taxonomy level (BL) for 1,2,3,4,5 and 6 is remember, understand, apply, analyze, evaluate and create respectively.
 - 5) Assume suitable data if necessary.
 - 6) Use of non-programmable calculators is allowed

Question Statements			Marks	BT Level	COs
Q.1	A	Explain the role of data structures in the problem solving.	7	2	1
	B	Discuss breaking problem into subproblems in detail.	6	2	1
OR					
	B	Define algorithm analysis & explain its efficiency and correctness.	6	2	1
Q.2	A	Explain Decision making statements in c (if, else).	6	2	1
	B	Describe looping statements in c (continue, break).	6	2	1
OR					
	B	Explain looping statements in c (for, while, do-while)	6	2	1

