Total No. of Questions - [3]

Total No. of Printed Pages: 02

G.R. No. PAPER CODE	

## MAY 2022 (ENDSEM) EXAM T.Y. INFORMATION TECHNOLOGY (SEMESTER - II) COURSE NAME: DESIGN AND ANALYSIS OF ALGORITHMS

COURSE CODE: ITUA32183

(PATTERN 2018)

**Marking Scheme** 

Time: [1Hr] [Max. Marks: 30]

- (\*) Instructions to candidates:
- 1) Figures to the right indicate full marks.
- 2) Use of scientific calculator is allowed
- 3) Use suitable data where ever required

Question No.	Question Descriptio	Marks		
Q1	a) Solution State Space Tree	[2 Marks] [2 Marks]		[4]
	b) Solution	[4 Marks]		[6]
	State Space Tree	[2 Marks]		
		OR		
	b) Solution State Space Tree	[4 Marks] [2 Marks]		[6]
Q2	a) Basic concept State space tree Role of bounding fu	[1 Marks] [1 Marks] nction [2 Marks]		[4]
	-			

Proof using SAT [4 Mark] [1 Mark]  OR  b) 2 Basic Difference  [2 Mark]					[6]
Q3	a) 2 Basic Difference 2 with help clique problem 1 ½ marks for each [3 Mark]  b) Definition of Clique Problem [1 Mark]			[4]	
	b) Solution State Space Tree	[2 Marks] [4 Marks] [2 Marks]	OR		[6]
	b) Solution	[4 Marks]			[6]

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2) Uss of scientists a souters, is allowed.