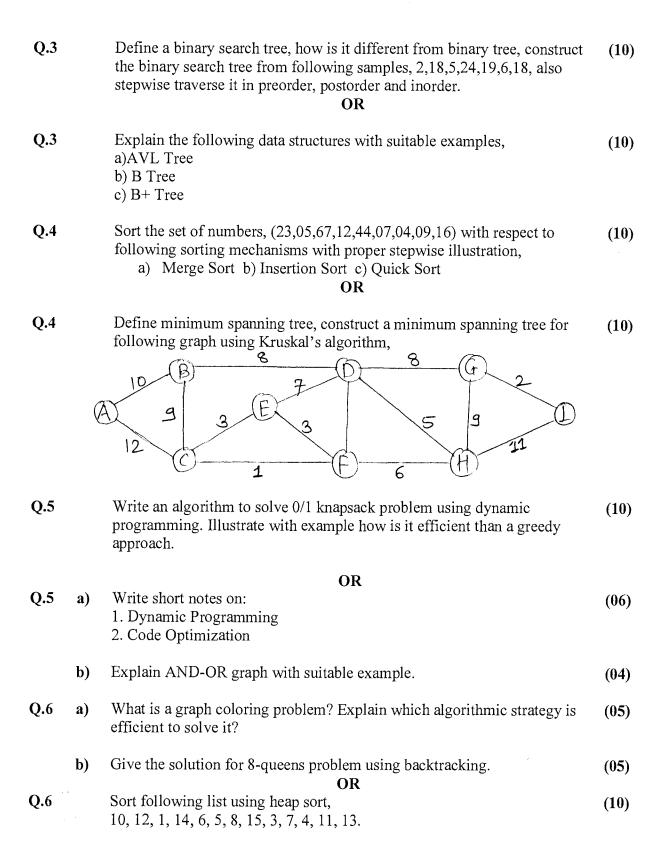
## B. Tech. Sem - III (Computer Engg.) 2014 COURSE) (CBCS) : SUMMER - 2019

## SUBJECT: PRINCIPLES OF DATA STRUCTURES

Date:		rday S-202	S-2019-2557 Time: 02 Max Max		2.30 PM TO 05.30 PM rks: 60	
N.B.:	1) 2) 3)	All questions are <b>COMPULSORY</b> Figures to the right indicate <b>FULL</b> Assume suitable data if necessary.				
Q.1	a)	Explain different factors that affect suitable example	efficiency of an algorith	m with a	(05)	
	b)	i) Inquiry about available s ii) Reserve a particular seat iii) Find out a window seat iv) Status of waiting queue Which data structure we can select?	eat	nctionality:	(05)	
			OR			
Q.1	a)	outline with suitable examples.		near ones,	(05)	
	b)			xample.	(05)	
Q.2	a)	Differentiate singly linked list with double linked list. Which one is more efficient and in which cases?  How to swap any two nodes in a singly linked list.		(05)		
	b)			(05)		
	OR					
Q.2	a)	Define queue. What are the conditions to be fulfilled for QueueEmpty and QueueFull for an array-implemented queue? Explain with suitable examples.		A .	(05)	
	b)	· · · · · · · · · · · · · · · · · · ·	emory allocation exibility of structure.	ving points, (P.T.O.)	(05)	



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