Aliti Baha Ria ID: 20101238 Bea: 113

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Question No 3: 9 M. Johns Answer

	A	B	C	D	E	Fo	G &
Α	O	0	0	0	0	0	0
B	1	0	0	0	0	0	0
C	1	0	0	0	1	0	0
D	1	1	0	0	0	. 1	0
E	1	0	1	0	0	1	0
F	0	0	0	0	1	0	٥
G	0	0	0	0	0	O	0

Adjancy Matrix (Outgoing)

Ar Adjancy Lint (Outgoing): A B A E Ge

Page No: 02 Aditi Baha Ria 3 MM Cowere Code: C6 E20 Answers to Buestion No 1: STA Brista det reverse Encrypt (megnage, keyr, 0) eligische sonstar 1 = me len (mennage) det reveruse Encrypt (mennage, kez, startIndex = 0): l= mennage [start Index] formers A free in a populic graph. This is on the A that there comed be any chilf many character to be attended to the pring a mi val = ord (1) + key ilogorif val Z 30: ilogo od moo dquing a temp = a novere Encropt (mennage, key, start Index +1) temp = charlval) . Just a elne: tom - val i = (val - 90) +65}-1 temp = char(valchari(i) revernetnerypt (mennage, key, ntard In dixt) print (temp, end = 1)

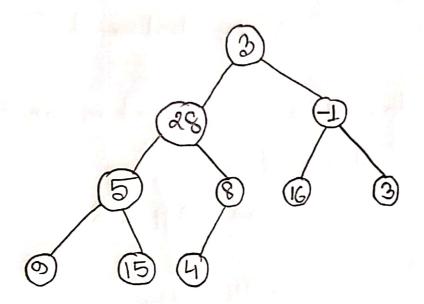
Page No: 8 Course Code: CSE220 Aditi Saha Ria D: 20101238 Bec: 13 My Touch ot proportion strung = 'ABC' neversetnerypt (string, 8,0) (pomerani) end we it Answer to Question No 2(b) and Ingresident to A tree in a acyclic graph. This someons that there cannot be any cycle present im a greaph to be a true. On the other hands a greaph can be cyclic and also acyclic. That's the difference between a graph and (loxbrails = most a tree. Arisor Ochunt (i)morboardonals

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Answer to Buestion No 2(a):

Complete binary tree:



In-order traversal:

Firstly it 3 will be vinited and then tes left subtree will be vinited and lastly right subtree will be vinited. Showing the order of nodes according to their vinits:

 $3 \rightarrow 28 \rightarrow 5 \rightarrow 9 \rightarrow 15 \rightarrow 8 \rightarrow 4 \rightarrow -1 \rightarrow 16 \rightarrow 3$ Toot node

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Port order traversal!

Then the rightmost will be visited. Lastly the root node 3 will be visited. Showing the sequence below.

 $9 \rightarrow 15 \rightarrow 5 \rightarrow 4 \rightarrow 8 \rightarrow 28 \rightarrow 16 \rightarrow 3 \rightarrow \rightarrow 1 \rightarrow 3$ Then in the troot node