

UNIVERSITY OF DAR ES SALAAM



COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY
(CoICT)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ASSIGNMENT IS 333

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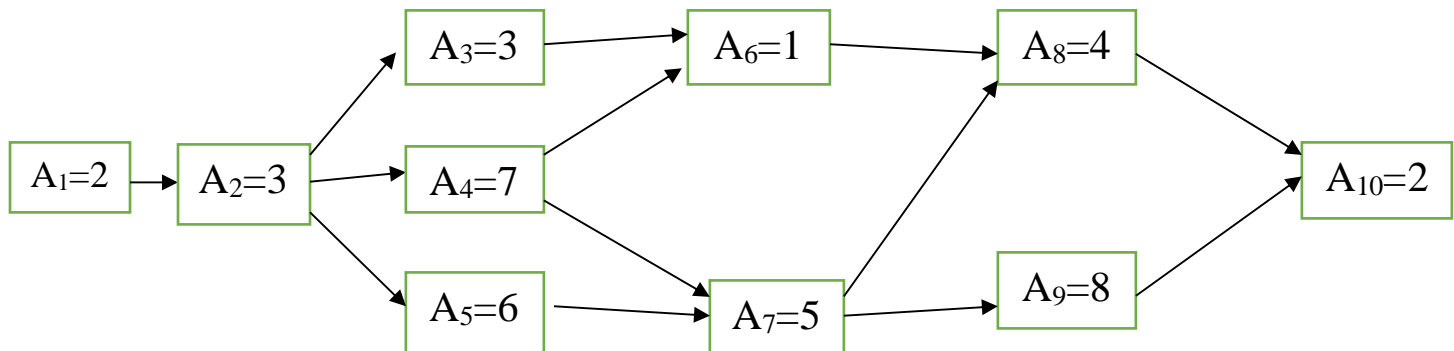
a. draw a network diagram for activities

answer

note:

A=activity

$A_1=2$ mean activity one will take two weeks



b. Calculation of earliest expected completion time

answer

All possible path and durations

1. $A_1 \rightarrow A_2 \rightarrow A_3 \rightarrow A_6 \rightarrow A_8 \rightarrow A_{10} = 15$ weeks
2. $A_1 \rightarrow A_2 \rightarrow A_4 \rightarrow A_6 \rightarrow A_8 \rightarrow A_{10} = 19$ weeks
3. $A_1 \rightarrow A_2 \rightarrow A_4 \rightarrow A_7 \rightarrow A_8 \rightarrow A_{10} = 23$ weeks
4. $A_1 \rightarrow A_2 \rightarrow A_4 \rightarrow A_7 \rightarrow A_9 \rightarrow A_{10} = 27$ weeks
5. $A_1 \rightarrow A_2 \rightarrow A_5 \rightarrow A_7 \rightarrow A_8 \rightarrow A_{10} = 22$ weeks
6. $A_1 \rightarrow A_2 \rightarrow A_5 \rightarrow A_7 \rightarrow A_9 \rightarrow A_{10} = 26$ weeks

Since earliest completion time is equal to the path with a largest time duration

Hence it will be 27 weeks

c. show critical path

answer



d. what will happen if activity six will take six week instead of one

answer

1. this will not change earliest time completion of the project it will still be 27 weeks this due to the fact that activity six is not in critical path and after we increase five weeks to all the path with activity six still there duration time will not exceed the previous critical path