PERT/CPM Analysis

PERT/CPM Chart

1. A, 2
2. B, 3
3. C, 1
4. D, 3
5. E, 4
6. F, 3
7. G, 2
8. H, 5
9. I, 3

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1. Which tasks are on the *critical path* of the PERT chart?
2. What is the *slack time* for tasks $C$, $D$, and $G$?
3. The person working on task $C$ can’t start work until one day after the scheduled starting date. What impact would this have on the project completion date? Why?
4. Task $A$ will be delayed by 2 days because some equipment has arrived late. To finish the project on time, we need to shorten the duration of one or more tasks. What steps can be taken to reduce the number of days allocated to a task?
5. Reduce the time needed for tasks $D$ and $F$ by one day each. Will this reduction be effective in achieving the original finish time for the project?