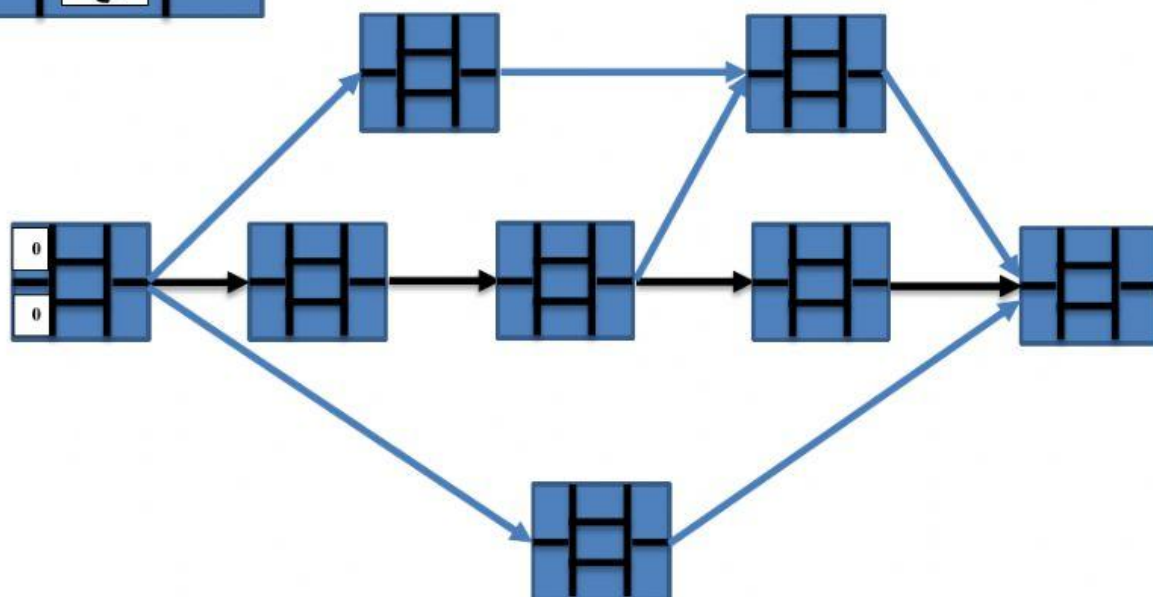
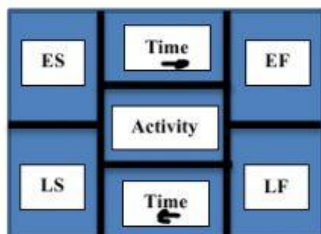


Q1) Produce the network diagram for the project tasks and activities shown below. calculate the early start, Early finish, late start and late finish times. Then answer the questions.

| Activity | Predecessor | Duration (days) | Comments                      |
|----------|-------------|-----------------|-------------------------------|
| A        | -           | 10              | Start purchasing              |
| B        | A           | 20              | Execution, design circuits    |
| C        | B           | 5               | Execution, Circuit building   |
| D        | C           | 10              | Adjustments and development   |
| E        | D, G, F     | 20              | Presenting                    |
| F        | A           | 15              | Building the prototype        |
| G        | F, C        | 5               | Monitoring, prototype testing |
| H        | A           | 15              | Report writing                |



Q2) what is the total duration of the project?

Q3) tick the critical activities in the below list?

A, B, C, D, E, F, G, H

Q4) what is the Late Finish time of activity H?

Q5) what is the Late Start time of activity G?

Q6) what is the early Finish time of activity H?

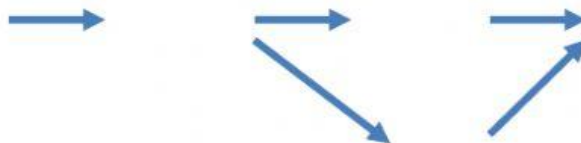
Q7) select the critical path from the following

- A, B, C, D, E
- A, F, G, E
- A, H, E
- A, B, C, G, E

Q8) Produce the network diagram for the project tasks and activities shown in the table.  
Drag the activity from activity bank then drop it in its correct place in the network diagram.

| Activity | Predecessor | Duration (days) | Comments                    |
|----------|-------------|-----------------|-----------------------------|
| A        | -           | 1               | Start purchasing            |
| B        | C           | 2               | Execution, design circuits  |
| C        | A           | 3               | Execution, Circuit building |
| D        | C           | 5               | Adjustments and development |
| E        | D, B        | 2               | Presenting                  |

THE NETWORK DIAGRAM



ACTIVITY BANK

