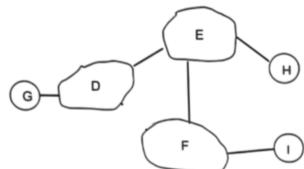


SOLUTION QUIZ-05 BCS-5A

QUESTION-01

1. $X \rightarrow AS1 \rightarrow AS4 \rightarrow AS5 \rightarrow AS3 \rightarrow Y$
2. Hot Potato Routing and Inter-AS Routing

QUESTION-02



The D and F connections aren't known to H. So only E-F-I and E-D-G will be advertised to it.

QUESTION-03

1. $A \rightarrow C \rightarrow D$ with total cost 5
- 2.

| Forwarding table in A | | |
|-----------------------|------|----------|
| Destination | Cost | Next Hop |
| A | 0 | — |
| B | 3 | B |
| C | 4 | C |
| D | 4 | B |

| Forwarding table in C | | |
|-----------------------|------|----------|
| Destination | Cost | Next Hop |
| A | 4 | A |
| B | 2 | D |
| C | 0 | — |
| D | 1 | D |

3.

| Forwarding table in A | | |
|-----------------------|------|----------|
| Destination | Cost | Next Hop |
| E | 6 | B |

| Forwarding table in B | | |
|-----------------------|------|----------|
| Destination | Cost | Next Hop |
| E | 3 | D |

| Forwarding table in C | | |
|-----------------------|------|----------|
| Destination | Cost | Next Hop |
| E | 3 | D |

| Forwarding table in D | | |
|-----------------------|------|----------|
| Destination | Cost | Next Hop |
| E | 2 | E |