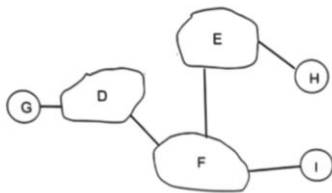


## SOLUTION QUIZ-05 BCS-5C

### QUESTION-01

1. AS-F  $\rightarrow$  AS-C  $\rightarrow$  AS-A  $\rightarrow$  AS-D
2. AS-D  $\rightarrow$  AS-A  $\rightarrow$  AS-B

### QUESTION-02



The D - E connection isn't known to F. Thus it can't advertise to I which itself doesn't know. Thus F only advertises F-E-H and F-D-G to I.

### QUESTION-03

1.

After first Exchange:

	A	B	C	D	E
A	—	10/B	7/D	3/E	1/E
B	10/A	—	2/C	5/C	11/A
C	7/D	2/B	—	3/D	5/D
D	3/E	5/C	3/C	—	2/E
E	1/A	11/A	5/D	2/D	—

After 2nd Exchange:

	A	B	C	D	E
A	—	8/E	6/E	3/E	1/E
B	8/C	—	2/C	5/C	7/C
C	6/D	2/B	—	3/D	5/D
D	3/E	5/C	3/C	—	2/E
E	1/A	7/D	5/D	2/D	—

**After 3rd Exchange:**

	A	B	C	D	E
A	—	8/E	6/E	3/E	1/E
B	8/C	—	2/C	5/C	7/C
C	6/D	2/B	—	3/D	5/D
D	3/E	5/C	3/C	—	2/E
E	1/A	7/D	5/D	2/D	—

**After 4th Exchange:**

	A	B	C	D	E
A	—	8/E	6/E	3/E	1/E
B	8/C	—	2/C	5/C	7/C
C	6/D	2/B	—	3/D	5/D
D	3/E	5/C	3/C	—	2/E
E	1/A	7/D	5/D	2/D	—

**(Note: Only the First 2 are required in Question as the Quiz has to fit in 15 minutes)**

**2.**

Forwarding table in B (initial)		
Destination	Cost	Next Hop
A	10	A
C	2	C
D	$\infty$	—
E	$\infty$	—

Forwarding table in B (1 exchange)		
Destination	Cost	Next Hop
A	10	A
C	2	C
D	5	C
E	11	A

Forwarding table in B (2 exchanges)		
Destination	Cost	Next Hop
A	8	C
C	2	C
D	5	C
E	7	C

**3.**

**B → A (directly with cost of 10) instead of the lower cost path**