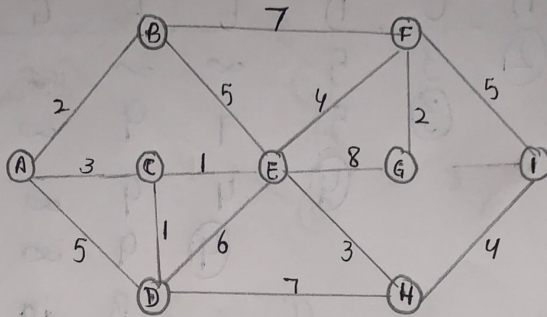


K191048

Amman Soomro

Computer Networks NH03

Q.1:



	A	B	C	D	E	F	G	H	I
A	0	2	3	5	-	-	-	-	-
B	2	0	-	-	5	7	-	-	-
C	3	-	0	1	1	-	-	-	-
D	5	-	1	0	6	-	-	7	-
E	-	5	1	6	0	4	8	3	-
F	-	7	-	-	4	0	2	-	5
G	-	-	-	-	8	2	0	-	-
H	-	-	-	7	3	-	-	0	4
I	-	-	-	-	-	5	-	4	0

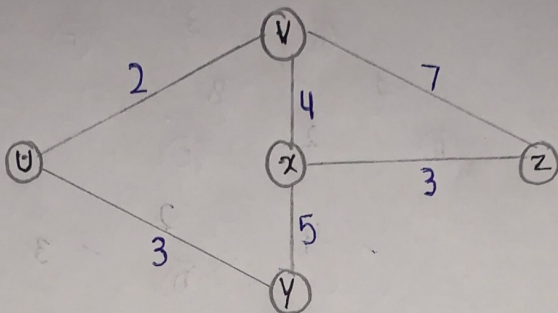
Routing table Part (a)

A	B	C	D	E	F	G	H	I
AB	(2)	3	5	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$
ABC		(3)	5	7	9	$\infty$	$\infty$	$\infty$
ABCD			(4)	4	9	$\infty$	$\infty$	$\infty$
ABCDE				(4)	9	$\infty$	12	$\infty$
ABCDEH					8	19	(7)	$\infty$
ABCDEHF					(8)	19	-	11
ABCDEHFG						(10)		11
ABCDEHFGI								(11)

Routing table Part (b)

A	B	C	D	E	F	G	H	I
AB	(2)	3	5	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$
ABC		(3)	5	7	9	$\infty$	$\infty$	$\infty$
ABCD			(4)	7	9	$\infty$	$\infty$	$\infty$
ABCDE				(7)	9	$\infty$	11	$\infty$
ABCDE F					(9)	15	10	$\infty$
ABCDEFH						11	(10)	14
ABCDEFHG						(11)		14
ABCDEFHGI								(14)

Q. no: 09



Part (a)

U	V	X	Y	Z
UV	(2)	$\infty$	$\infty$	$\infty$
UVY		6	(3)	9
UVYX		(6)		9
UVYXZ				(9)

Part (b)

E	A	B	C	D	F	G	H	I
EC	-	5	(1)	6	4	8	3	-
ECD	4	5		(2)	4	8	3	-
ECDH	4	5			4	8	(3)	-
ECDHA	(4)	5			4	8		7
ECDHAF		5			(4)	8		7
ECDHAFB		(5)				8		7
ECDHAFBG						6		7
ECDHAFBGI						(6)		7
								(7)



## Part C

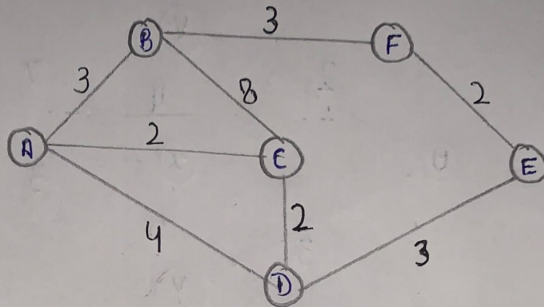
### local routing tables.

U			V			X			Y			Z		
Dest	Dist	next	Dest	Dist	next	Dest	Dist	next	Dest	Dist	next	Dest	Dist	next
U	0	U	U	2	U	U	$\infty$	-	U	3	U	U	$\infty$	U
V	2	V	V	0	V	V	4	V	V	$\infty$	-	V	7	V
X	$\infty$	-	X	4	X	X	0	X	X	5	X	X	3	X
Y	3	Y	Y	$\infty$	-	Y	5	Y	Y	0	Y	Y	$\infty$	-
Z	$\infty$	-	Z	7	Z	Z	3	Z	Z	$\infty$	-	Z	0	Z

### Routing table for (Z)

Z			X	V
Dest	Dist	next	Dist	Dist
U	9	U	$\infty$	2
V	7	V	4	0
X	3	X	0	4
Y	8	Y	5	$\infty$
Z	0	Z	3	7

Q.no: 03



A	B	C	D	E	F
AO	3	(2)	4	$\infty$	$\infty$
AOB	(3)		4	$\infty$	$\infty$
ACBD			(4)	$\infty$	6
ACBDF				7	(6)
ACBDFE				(7)	