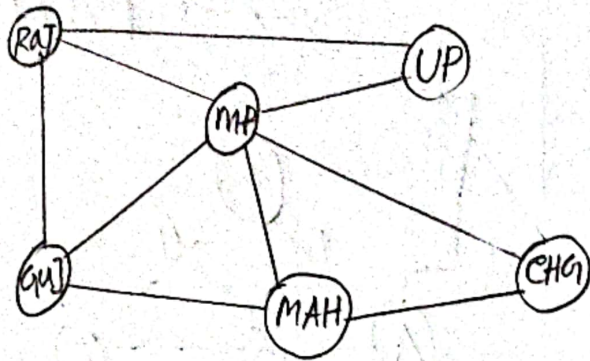


1)

①



JOY KARMOKAR

18-39263-3

sec: 9[AI]

C - Cyan
M - magenta
Y - yellow

	MP	RAJ	UP	GUJ	CHG	MAH
	CMY	CMY	CMY	CMY	CMY	CMY
MP-M	(M)	CMY	CMY	MY	MY	MY
RAJ=C	(M)	(C)	MY	MY	MY	M
UP=Y	(M)	(C)	(Y)	MY	MY	M
GUJ=M	(M)	(C)	(Y)	(M)	MY	M
CHG=Y	(M)	(C)	(Y)	(M)	(Y)	M
MAH=M	(M)	(C)	(Y)	(M)	(Y)	(M)

Answer:

MP = magenta, RAJ = Cyan, UP = yellow,
GUJ = magenta, CHG = yellow, MAH = magenta.

21

②

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sec-6 [AI]

Heuristic Value H (SLD)	S	A	B	C	D
	7	4	2	1	0

$$S \rightarrow A = 1 + 4 = 5$$

$$S \rightarrow B = 4 + 2 = 6$$

$$S \rightarrow B \rightarrow C = 4 + 2 + 1 = 7$$

$$S \rightarrow B \rightarrow A = 4 + 2 + 4 = 10$$

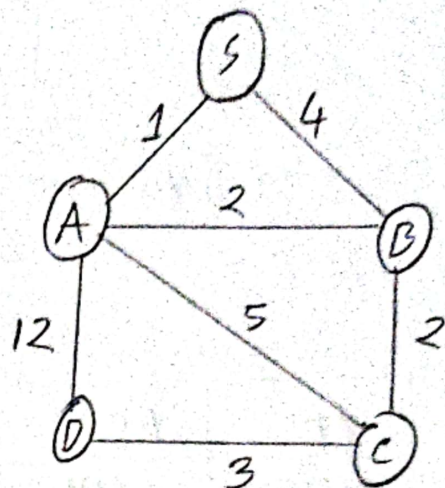
$$S \rightarrow A \rightarrow B = 1 + 2 + 2 = 5$$

$$S \rightarrow A \rightarrow D = 1 + 12 + 0 = 13$$

$$S \rightarrow A \rightarrow C = 1 + 5 + 1 = 7$$

$$S \rightarrow A \rightarrow B \rightarrow C = 1 + 2 + 2 + 1 = 6$$

$$S \rightarrow A \rightarrow B \rightarrow C \rightarrow D = 1 + 2 + 2 + 3 + 0 = 8$$



$$\therefore S \rightarrow A \rightarrow B \rightarrow C \rightarrow D = 8$$

\therefore Minimum path from A* Search 8

[Ans]