

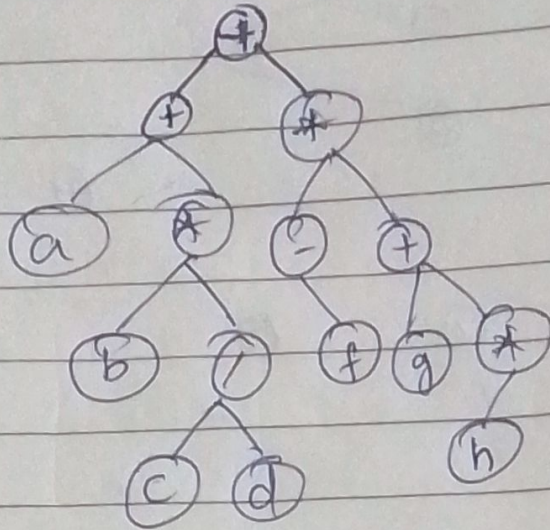
Assignment

① Evaluate expression

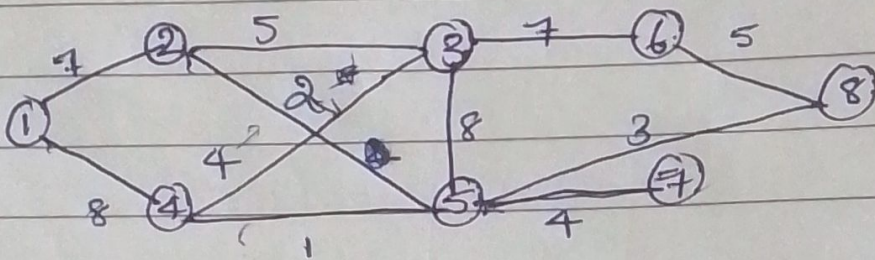
(i) $++ 2 * 9 - 43 / 93$

(ii) $2345 - * + 55 / +$

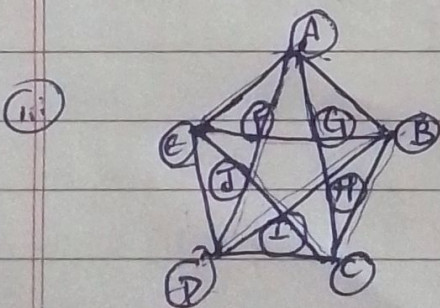
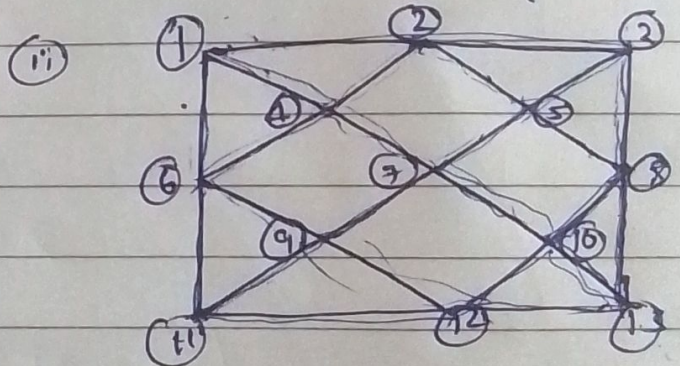
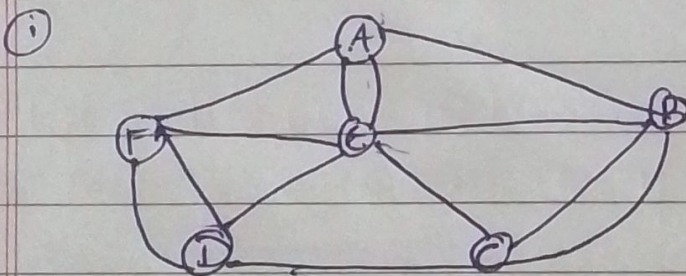
② Find prefix, infix & postfix expression
 DLR LDR LRD



③ Find MST



④ Find ep, ec, hp & hc



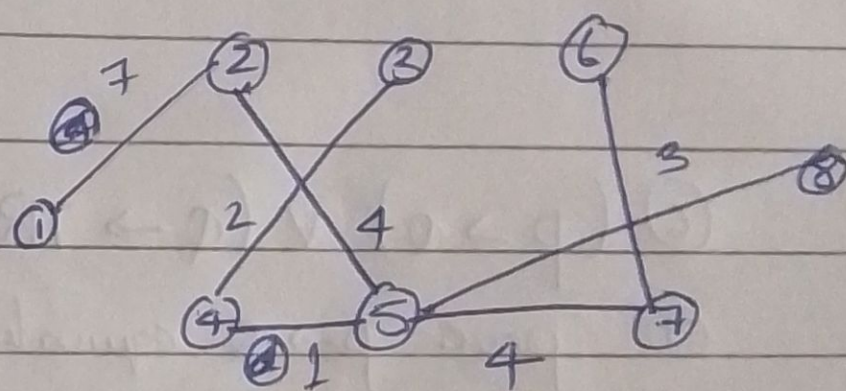
(ii) EP - ABCDEFGHBHIDJFAG HCF
 IE A → can be EC too
 HP - ABCDEFGHIJ
 HC - ABCDEFJIHGA

$$\begin{aligned}
 & \textcircled{1} \textcircled{1} + + 2 * 9 - 4 \sqrt{3} / 9 \sqrt{3} \\
 & + + 2 * 9 - 4 \sqrt{3} (3) \\
 & + + 2 * 9 - (1) (3) \\
 & + + 2 \sqrt{9} (3) \\
 & + (11) (3) \\
 & 14
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{15} \quad 2 \sqrt{345} - * + 15 \sqrt{5} / + \\
 & 2 \sqrt{3(-1)} * + 3 + \\
 & 2 \sqrt{-3} + 3 + \\
 & -1 * 3 + \\
 & 2
 \end{aligned}$$

$\textcircled{2}$ prefix - $+ + a * b / c d * - f + g * h$
 infix - $a + b * c / d + - f * g + h *$
 postfix - $a b c d / * + f - g h * + * +$

edges	Induced	if not
45(1)	yes	
34(2)	yes	
58(3)	yes	
57(4)	yes	
25(4)	yes	
32(5)	no	32-45
68(5)	yes no	68 57
12(7)	yes	
36(7)	no	36 45 57
14(8)	no	14 25
35(8)	no	34-45



Total = 21

④ (i) $E_p \rightarrow A \cancel{B} \cancel{C} \cancel{D} \cancel{E} \cancel{F} A B C D F A B C D F E A$

↓ can be circuit too

$H_p \rightarrow A B C D E F$
 $A B C F D E$

$A_{LC} \rightarrow A B C D F E A$

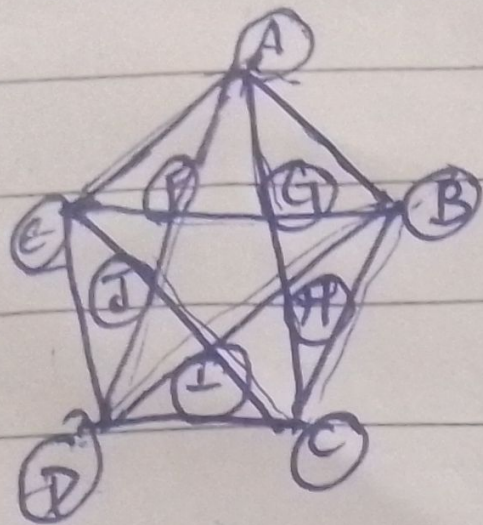
(ii) E_p - not possible
 $1/2 \ 3/5 \ 2/4 \ 1/6 \ 4/7 \ 5/8$
 $10/7 \ 9/6 \ 11/9 \ 12/10 \ 13/8$

E_C - not possible

H_p - $1/2 \ 3/5 \ 7/4 \ 6/9 \ 11/12 \ 10/13 \ 8$

H_C - $1/2 \ 3/5 \ 7/10 \ 8/13 \ 12/11 \ 9/6 \ 4/1$

(iv)



(iii) EP - ABCDEFGHBHIDJFA G HCI
JE A \rightarrow can be EC too

~~HP~~ - ABCDEFGHIJ
HC - ABCDEFJ IHGA

