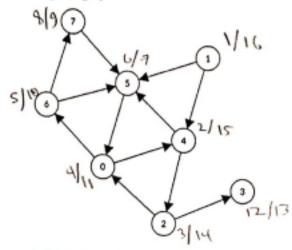


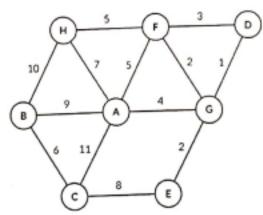
Roll:

Section: 14

[CO1] Using Proper algorithm and showing each steps find out the strongly connected components of the given graph. (9)



[CO3] Find out the Minimum Spanning Tree and Cost for the given graph using Kruskal's or Prim's algorithm.



A 1 | 1 DFS

ii) Reverse edger

iii) DFS from highest finish time

3/2 1/2 1/2 3/4 3/4 3/5/16

3cc i)1 ii)4,0,2 ii)4,0,2,35,6,7 iii)4,0,5 iii)3

A2)
$$D \rightarrow \chi(D \rightarrow W)$$
, $3(D-F)^{\chi}$
 $G \rightarrow \chi(G-F)$, $\chi(G-E)$, $\chi(G-A)$
 $F \rightarrow \chi(F-H)$, $S(F-A)^{\chi}$
 $F \rightarrow \chi(E-C)$
 $A \rightarrow U(A-C)^{\chi}$, $9(A-B)^{\chi}$, $7(A-H)^{\chi}$
 $H \rightarrow O(H-B)^{\chi}$
 $C \rightarrow \chi(C-B)$

