

- 2.a) FALSE - C and G are not d-separated .They are connected by path $E \leftarrow B \rightarrow D \leftarrow A \rightarrow C$
- b) True - All the paths between C and E are inactive. They are d-separated.
- c) True - path that connects is $E \rightarrow G \leftarrow D \leftarrow A \rightarrow C$, G is given. They are d-connected given G.
- d) False – All the paths are blocked .Therefore A and G are d-separated given D and E.
- E) True - path that connects is $A \rightarrow D \leftarrow B \leftarrow E \leftarrow G$