Green University of Bangladesh

Department of Computer Science and Engineering

Course code: CSE 101   CT-3   Time: 2 days

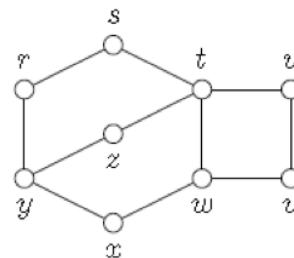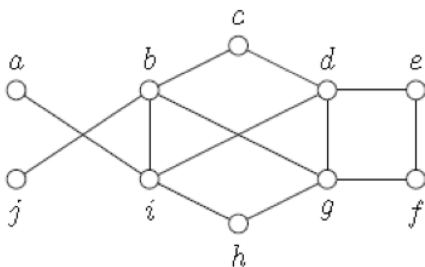01.   **08 marks [co3]**

Determine whether each graph is bipartite. If bipartite, redraw the graph identifying the partite sets; if not, explain why.

Level	Marks	Description
Excellent	08	Determined correctly both of the graphs and redrew the updated graphs.
Good	06	Determined correctly both of the graphs but didn't redraw the updated graphs.
Average	04	Determined one graph correctly but another one was wrong.
poor	02	Didn't determine properly but tried in a right way.

02. "Prove by mathematical induction that $3^n \geq n^3$ for $n \geq 3$." Show the necessary details. **07 marks**

[co3]

Level	Marks	Description
Excellent	07	Made a proof with necessary details.
Good	06	Just made a proof but not in details.
Average	04	Made a proof Partially.
poor	02	Didn't proof properly but tried in a right way.