DURATION: 1 HOUR

Date: 07.03.2015	Time: 1.00 p.m. – 2.00 p.m.

Answer **ALL** the following questions.

Q1. What is the purpose of doing a feasibility study and why is it important in system development?

Q2.

i) What is a decision tree?

ii) There are different entrance rules for the Colombo Museum for different days of the week. Those rules differ among themselves depending on whether it is a national holiday or a non-holiday. Particularly, if you visit on a Saturday which also happens to be a national holiday, do not bother to come because the museum is closed. But on other Saturdays you can use the Main Entrance. If you are visiting on a Sunday, the museum is again closed if it is a national holiday. But if not, you should use the Perera Mawatha for access. If you'd like to visit on a regular weekday, use the Soysa Avenue entrance if it is a national holiday, if not use the Main Entrance.

Construct a decision tree using the above scenario.

Q3. A company has employees. An employee has a unique number, a name and a salary. The company has a unique number and a name which is also unique. Draw an Entity Relationship Diagram including attributes and primary keys.

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