Section - F

NCP Evaluation Lab Question

A university database contains information about professors and the courses they teach. In the odd semester 2008, the course 'Introduction to Database Management Systems' was taught by Professor Gupta. The course took place Mondays and Wednesdays from 9 to11a.m. in room C402. The lab section was held on Fridays from 9.45am to 12.20 p.m. Also in the same semester 2008, the course 'Advanced Database Management Systems' was taught by Professor Menon. Thirty five students took that course which was held in room C401 Mondays, Tuesdays and Thursdays from 1.10 to 2 p.m. In the odd semester 2009, the course 'Introduction to Database Management Systems' was taught by Dr. Priya on Tuesdays and Thursdays from 3 to 4.30 p.m. in room C405. Sixty three students were enrolled; the lab was on Thursdays from 2.10 to 4 p.m. The other course taught in the odd semester was 'Advanced Database management Systems' by Professor Shankar, Monday, Wednesday, and Friday from 9 to10 a.m.

a) Create an XML document describing this information. [5]

b) Create a DTD for this XML document [3]

c) create a XML schema for the designed XML document. [7]

d) Write a query in XQuery to find the details of all labs that occured in the even semester of 2008. Execute it in the online editor. [5]