

M. E. ( Software Engineering ) Examination 2011  
1<sup>st</sup> Semester

Information Systems Engineering

Time : Three Hours

Full Marks : 100

Answer Any FIVE Questions ( out of seven ).

1. a) Explain with examples each of the following terms :  
Data, Information, and Knowledge. ( 10 )
- b) Write short note on ERP. ( 10 )
2. a) Describe the basic risky decision structure. What is sequential decision structure ? ( 6 + 4 = 10 )
- b) Briefly describe the five basic methods for determination of executive information needs. ( 10 )
3. a) What are the factors associated with information quality in DSS design ? ( 10 )
- b) What are the basic processes for DSS analysis and design ? ( 10 )
4. a) What are the characteristics of a data warehouse? ( 10 )
- b) What is metadata of a data warehouse ? What are the components of metadata ? ( 10 )
5. a) Explain the different layers in the data warehouse architecture. ( 12 )
- b) Explain the ETL process. ( 8 )
6. a) Explain the techniques used for mining data. What are the current limitations of data mining ? ( 6 + 4 = 10 )
- b) What is online analytical processing ? Explain the concept of multidimensional OLAP. Describe how relational OLAP works. ( 2 + 4 + 4 = 10 )
7. (a) Differentiate between supervised learning and unsupervised clustering. ( 10 )
- (b) Explain 'confusion matrix' used for evaluation of supervised learner models. ( 10 )