Q1. (a) What are the steps involved in designing of a decision Support System?  
(b) Differentiate between:  
   (i) Decision Support System and Group Decision Support System.  
   (ii) Structured decisions and Unstructured decisions.  

Q2. (a) Describe the components of expert systems.  
(b) Which types of information systems are used by middle level management? Why?  

Q3. (a) Give the syntax of data manipulation commands of SQL server.  
(b) What is a referential integrity constraint?  
(c) Which of the two ie OLTP and OLAP, more helpful in taking strategic decisions? Why?  

Q4. Draw and explain the data warehousing architecture with special reference to retail sector.  

Q5. Explain the following techniques of data mining:  
   (a) Neural networks  
   (b) Genetic algorithms  
   (c) Decision trees  
   (d) Case-based reasoning  

Q6. (a) How data coding helps in data mining? Explain.  
(b) Describe how data integration can lead to higher levels of data quality?  
(c) Explain the term 'Knowledge Discovery in Databases'.  

Q7. (a) Discuss the applications of data mining in retail and insurance sectors.  
(b) Why is it necessary to align knowledge management strategies with overall business strategies?  

Q8. (a) How can the information technology be used to implement knowledge management systems?  
(b) Suggest the knowledge management initiatives that can be undertaken in the universities.

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