



Post Graduate Diploma in Materials Management

Paper 18.b

DECISION SUPPORT SYSTEM

Date: 18.06.2011

Max. Marks 100

Time: 2.00 p.m. to 5.00 p.m.

Duration 3 hours

Instructions:

- 1. From part "A" answers all questions (compulsory). Each sub-question carries 1 mark. **Total marks = 32.**
- 2. From part "B" answers any three questions out of 5 questions. Each question carries 16 marks. **Total marks = 48.**
- 3. Part "C" is a case study (compulsory). **Total marks = 20**

PART A

Q.No. 1. Expand the following

- 1. DBMS
- 2. GDSS
- 3. ESS
- 4. VBA
- 5. MSD
- 6. OLAP
- 7. OLTP
- 8. WWW

Q. No. 2 Fill in the blanks

- 1. DSS is -----Support System, a powerful tool integrating scientific methods for supporting
- 2. complex decisions.
- 3. Full form of AI is -----
- 4. Decision Support System are a -----of computer-based information system (CBIS)
- 5. A DBMS serves as a-----for the DSS
- 6. Expert systems (ESs) are an instance of -----
- 7. Meta Data is data about -----
- 8. -----technique consider data tuples as objects

Q. No. 3 Match the following

	Column A		Column B
a)	VBA	1	Is equal to CFE/MAD
b)	Regression & Log-linear Models	2	Method for time series forecasting
c)	PCA	3	Language to write excel program
d)	ESs	4	Used to approximate the given data
e)	Tracking Signals	5	Method of data compression
f)	Moving Average	6	An instance of DSSs with unique characteristics
g)	Qualitative Methods	7	Popular form of data reduction
h)	Histogram	8	Delpi Technique

**Q. No. Find True or False of the following**

- 1) PEST analysis is helps to assess the potential & suitability of a market
- 2) CRM stands for Customer Relationship Management
- 3) The data management method is a **main system** of a computer based decision support system
- 4) PCA is Prime Computer Analysis
- 5) Data Mining is also called as data or knowledge discovery
- 6) DWT stands for discrete wavelet transform
- 7) Sampling can be used as a data reduction technique
- 8) PCA & K-L Methods both are not same

Part B

**Q.No.5** a)What is data mining

b)Describe the architecture of data mining

**Q. No. 6. Write short notes on (any two) (8+8)**

- 1.a) Simon's Model  
b) Payback analysis
- 2 a) VBA  
b)Macro
- 3 a)Data Warehouse  
b) Meta Data
- 4 a)Wavelet Transformation  
b) Numerosity Reduction

**Q. No. 7** a)Discuss the advantage & disadvantage of DSS  
b) What are the characteristics & objectives of DSS

**Q. No.8** a) What are the components of DSS  
b)Write short notes on DBMS

**Q. No. 9 Distinguish between**  
a) OLTP & Data Warehouse  
b) Data warehousing & data mining

**Q. No. 10**

Part C

**(Case Study)**

Following data for analysis include the attribute age. Use Z-score normalization to transform the value 34 for age, where the standard deviation of age is 12.74 years.

11,13,15,16,19,20,21,21,22,22,25,25,25,26,30,33,34,35,35,35,35,36,40,45,46,52,68

\*\*\*\*\*