

## INDIAN INSTITUTE OF MATERIALS MANAGEMENT

June 2012

# **Post Graduate Diploma in Materials Management**

## Paper 18.B

## **DECISION SUPPORT SYSTEM**

Date: 16.12.2012	Max. Marks 100					
Time: 2.00 p.m. to 5.00 p.m.	Duration 3 hours					
Instructions:	Instructions:					
1. From part "A" answers all questions (compulsory	y). Each sub-question carries 1 mark. <b>Total marks = 32.</b>					
2. From part "B" answers any three questions out of 5 questions. Each question carries 16 marks. <b>Total marks =48</b> .						
3. Part "C" is a case study (compulsory).	Total marks = 20					
PART A	( 1 x32 = 32 marks)					
Q 1. Expand the following.						
1. CSF						
2. DDE						
3. GIS						
4. MSD						
5. SFA						
6. ES						
7. DBMS						
8. GDSS						
Q 2. Fill in the blanks.						
Electronic Data processing in	s the first of several links ofto information chain.					
2. The aim of DSS is to improv	e theof decision made.					
3. The frame work for DSS was	3. The frame work for DSS was provided by					
4. A DSS generator is a package	A DSS generator is a package of selected and					
5. Forecasting is the estimation	of the value of aat some future point of time.					
6 tests its equipment or	n a regular basis using DSS.					
7are irreversible and ha	ave far reaching consequences for the rest of an					
organisation life.						
8. According to DSS have	ve 5 components.					

#### Q3. Match the following.

	Column A		Column B	
а	Visual interface	1	Statistical software	
b	PEST analysis	2	Wide variety of Data	
С	Regression	3	Loss less & Lossy	
d	MINITAB	4	Multinational Software Company	
е	SPSS	5	Filling missing value	
f	Data warehousing	6	Graphics	
g	Data cleaning	7	Assess market potential	
h	Data compression	8	Y=a+bx	

#### Q 4. Find True or False of the following.

- 1. Decision making is identifying and choosing alternatives by the sub-ordinates of the decision maker.
- 2. Simulation is an activity which attempts to imitate an existing system.
- 3. Choosing the first opportunity seems satisfactory rather than seek the best solution
- 4. A model is a shared set of assumptions that enable us to understand or predict behaviour.
- 5. While we spend time and money to reduce risk, we can never eliminate it.
- 6. DSS are powerful tools integrating scientific method for supporting complex decisions.
- 7. DSS work the best where the business processes are well defined and followed systematically.
- 8. A DBMS serves as a data bank for the DSS.

#### **PART B** (answer any three) (16 x3 = 48 marks)

- Q 5. Describe the various steps involved in the decision making process.
- Q 6. What are the differences among MIS, DSS and EDP?
- Q 7. What are the benefits of having Data Warehouse Architecture? How to develop a data warehouse?
- Q 8. Write Short note on any of the following two: (8+8) marks
  - a. Data Reduction
  - b. Data Aggregation
  - c. Data Compression
  - d. Data Integration
- Q9. Explain the different types of Data bases?

Q10. <u>Case Study</u>: In a company 10 salesmen employed were given a month's training. At the end of the training a test was conducted and they were ranked as per the performance in the test. They were them posted to their respective areas. At the end of six months, they were rated in terms of their sales performance. The Data are given below.

sales	Rank obtained	Rank obtained	Differe	Difference
men	during Training	in sales	nce(D)	Square(D2)
	Test (X)	performance(Y)		
1	4	5	-1	1
2	6	8	-2	4
3	1	3	-2	4
4	3	1	+2	4
5	9	7	+2	4
6	7	6	+1	1
7	10	9	+1	1
8	2	2	0	0
9	8	10	-2	4
10	5	4	+1	1
Ed2				24

Question: What type of correlation exist between performance in training and performance in sales of the 10 Salesmen.