DEC-2009

INDIAN INSTITUTE OF MATERIALS MANAGEMENT Post Graduate Diploma in Materials Management

PAPER 18.b DECISION SUPPORT SYSTEMS

Date: 15.12.2009 Max. Marks: 100 Time: 2.00pm to 5.00pm Duration: 3 Hrs

Instructions:

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 five questions. Each question carries 16 marks.

Total marks=48

3. Part "C" is a case study (Compulsory). Total marks=20

PART - A

Q.1 Expand the following

1] API 2] GDSS 3] JSP 4] ERP 5] ODSS 6] MAN 7] OLAP 8] MIS

Q.2 State true or false.

- 1. EIS stands for External information systems.
- 2. Web pages are developed using hypertext markup language.
- 3. Artificial intelligence is the science and engineering of making intelligent machines.
- 4. UNIX is application software.
- 5. Modem is a device used for modulation and demodulation.
- 6. Minsky proposed that knowledge be organized in small packets.
- 7. knowledge-driven DSS provides specialized problem-solving expertise stored as facts, rules, procedures, or in similar structures
- 8. Testing is a process used to identify correctness, completeness and quality of developed computer software.

Q. 3 Match the following.

S. no		S. No.	
1	John McCarthy	1	Active Server Pages
2	Graphical user interface	2	LISP
3	Text mining	3	ERP enabling technology
4	ASP	4	Information retrieval
5	Public key encryption	5	Concept of client architecture
6	Transmission Control	6	Dependant upon types of users
	Protocol		who are using systems.
7	EDI	7	Ensures integrity of
			transmission between sites
8	Web browsers	8	Cryptography

Q.4 Fill in the blanks.

 HCI stands for Human 	Interaction.			
2. A is a collec	ction of transmitters, receivers and transceivers that			
communicate with each other.				
3. Two factor theory is propos	ed by			
4. A network configuration in v	which each computer or device is attached to a central			
cable is called a(n)	network.			
5 is the new cor	mputer language used to write animation and games			
for the World Wide Web				
6. A private network within an organization is called a(n)				
7. Expert systems, use	to solve problems that normally would			
require human intelligence.				
8 is tech	nique used for fabrication of processor and other very			
large scale integration chips.				

PART -B

- **Q.5** (a) What are applications of DSS?
 - (b) Explain knowledge representation and inference in Al.
- **Q.6** (a) What is the relationship between MIS and EDP?
 - (b) Explain steps to convert data into information?
- **Q.7** (a) Discuss CODD's 12 rules for relational database.
 - (b) What are functions of operating system?
- **Q. 8** List and explain components of DSS. Compare data-subsystem with model-subsystem?
- **Q.9** Short notes on [16]
 - (a) Information Quality
 - (b) Explain Theory X and Theory Y.

<u>PART – C</u> Case Study (Compulsory)

Q.10 Mr. X , a management consultant at IT firm of Rs. 900 crores turnover, wants to investigate requirements of decision supports system, in order to improve the services provided to customers. Explain how he should prepare a report highlighting step-by-step approach for implementing decision support system, expected improvements in services to customers, economics of systems. What are difficulties in implementing decision support system.