INDIAN INSTITUTE OF MATERIALS MANAGEMENT



1. TOS

2. CTR

3. FBS

4. QMS

5. BPS

Post Graduate Diploma in Logistics &SCM
Post Graduate Diploma in Materials Management - 2 years
PAPER No. 9 (enrollment code- PGMM, PGSM)

Dec. 2024

IT Applications in Management

| Date Time | : 18.12.2024 : 10.00 a.m. to 1.00 p.m. | | Max. Marks : 70 Duration : 3 Hrs. | |
|--|--|---------------------------------|--|--|
| Fror | tions: n Part A – answer all questions (compulsory). Each n Part B – Answer any 3 questions out of 5 question C is a case study (compulsory) with questions. | | Total : 20 Marks ks Total : 30 Marks Total: 20 Marks | |
| | Part – A (Attempt all questions. Eac | ch sub question carries 1 mar | [20 Marks] ·k.) | |
| Q.1 Fil | I In The Blanks | | (5 Marks) | |
| is the process of examining data sets to draw conclusions they contain. is the cycle of inputting, processing, outputting, storing information in an information system. are a set of quantifiable factors that are critical to the success of an organization. stores all data as a unified body in a single central computer such as a mainframe. is a set of computers connected together for the purpose of sharing resources. | | | | |
| Q 2 N | latch The Following: | | (5 Marks) | |
| ~. <u>-</u> | A | В | (o manto) | |
| | 1. LTE | A. data set | | |
| | 2. Big data | B. machine learning algorithm | S | |
| | 3. Cognitive computing | C. goods and services on a co | omputer network | |
| | 4. E-commerce | D. identifying the object | | |
| | 5. Bar code | E. cellular technology | | |
| Q. 3. S | ay True or False | | (5 Marks) | |
| Bato Digit Cha | al network is defined by a user's connections on the data are high latency, or not in real time. It dashboard is a graphical user interface use about is a service powered artificial intelligence a silo are distributed data stores. | d to publish data across an org | anization. | |
| Q. 4. V | Vrite the full forms of the following | | (5 Marks) | |

PART - B

| Q.5. A) Explain the role of IT in improving business processes.B) Describe IT infrastructure, IT architecture, and enterprise architecture. | (5 Marks) (5 Marks) |
|--|------------------------|
| Q.6. A) Differentiate between a database and a data warehouse. | (5 Marks) |

(Answer Any Three. Each question carry 2 * 5 = 10 marks)

3.6. A) Differentiate between a database and a data warehouse.

(5 Marks)

B) Explain various benefits companies can gain from the Internet of Things (IoT) and edge computing.

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(5 Marks)

Q.7. A) List and explain the IT defense tools that can be used to protect organizations form cyberattacks.

(5 Marks)

B) Describe different phases of decision-making.

(5 Marks)

[30 Marks]

Q.8. A) How Semantic Web technology enhances the accuracy of search engines results? Elaborate.

(5 Marks)

B) Explain how mobile technologies are creating opportunities for new forms of commerce. (5 Marks)

Q.9. A) Elaborate the approaches in which HRIS can improve the HR function. (5 Marks)

B) What are the key factors that lead to a successful ERP implementation? Explain. (5 Marks)

PART - C [Compulsory]

[20 Marks]

Q. 10 Read the following case answer the questions.

Blockchain technology (BCT) is widely used in various applications where different stakeholders of their own interest are coming together where they cooperate and coordinate in trustless decentralized environment. The BCT is more suitable for supply chain management (SCM) applications. The food items supply chain is sensitive issue, and it is difficult to handle the problems food traceability, safety enable, authentication of stakeholders, security and consensus, transparency in transactions, food items shortfall, matching demand and supply chain wastage of material, etc. The Hyper ledger fabric transaction flow is formed to record the world state by passing communication channels on peer to peer through farmers to distributors, distributors to food processing industry, food processing industry to distributors, distributors to retailers, and lastly retailers to customers. This uses core components of blockchain technology by designing specific architecture, writing smart contracts on Ethereum platform which provides facilitation for certain kind of food supply chain ordering services as a public permissioned platform. It uses the properties of distributed and peer-to-peer supply chain architecture.

Questions: $(2 \times 10 = 20 \text{ marks})$

- 1. Identify various supply chain management flows and the major capabilities of SCM.
- 2. Describe the role of a CRM system with respect to customer lifetime value.
- 3. Explain the different markets served by online retailers and the strategies they set to conduct e-commerce.
- 4. Describe how search engines work and identify ways that businesses gain competitive advantage by using search technology effectively.
