

# 18MBA 207

## FUNDAMENTALS OF IT & ERP

### Probable Questions

#### Part - 1

- What is IT ?
- Difference between circuit switching & packet switching
- Bandwidth
- Bit Rate vs Baud Rate
- Guided Transmission Media vs Unguided Transmission Media
- Bus, Ring, star, Mesh, Tree Network Topologies
- LAN, MAN, WAN, PAN, WLAN, CAN, SAN, EPN Networks
- OSI Model
- Function of each layer i.e physical, Data Link, Network, Transport, session, presentation, Application layer of OSI Model.
- DSL, USB, ISDN, ATM, Ethernet, HDLC, IEEE 802.11, NAT, IP, TCP, UDP, RPC, SSL, DNS, HTTP, SMTP, FTP, WWW protocol Definition
- VPN
- Cyber Crime
- DOS, Cyber Theft, Social Engineering Attacks
- phishing, pharming, vishing, smishing definitions
- Computer Virus vs computer Worm
- Malware, Spyware
- Cryptography (Encryption vs Decryption, Symmetric Key cryptography vs Asymmetric Key cryptography)
- Hash Function
- Digital signature
- Firewall
- Definition of confidentiality, Integrity, Availability, Nonrepudiation, Authentication
- Data vs Information [only Definition]
- Knowledge
- Database
- DBMS
- Datawarehouse
- File vs Database [only Definition]
- Hierarchical vs Network vs Relational Database Model

- Physical Schema vs Logical schema vs view schema
- What is schema?
- DDL, DML, DCL, DQL
- What is KDD?
- What is Data Mining?
- What is pattern?
  - Decision Tree
  - Decision Table
  - Business Intelligence
  - Business Analytics
  - Big Data
  - Hadoop
  - DBA
  - Data Dictionary
  - Meta Data
  - Data Mart
  - OLAP vs OLTP [only definition]
  - ROLAP vs MOLAP vs HOLAP
  - E-Government
  - Information system
  - Management Information system
  - Operational vs Management vs strategic control Levels of MIS
  - TPS, MIS, DSS, Expert system, strategic Information system, fuzzy logic based Information system [Definitions]
  - MMIS, HRIS, FMIS, IMIS [Definition only]
  - Decision making under certainty vs
    - " " " uncertainty vs
    - " " " Risk
  - CPM vs PERT [only Definition]
  - Regression
  - [Communication/Data/Document/Knowledge/Model] driven DSS
  - CAD, CAM, CAE, CAPP
  - ERP
  - stand Alone system vs ERP system

- Data conversion
- Re Engineering ~~⊗~~
- Business process ReEngineering/BPR
- MRP vs MRPII vs ERP vs EERP
- Supply chain Management (SCM)
- Customer Relationship Management (CRM)
- Data Replication
- How integration of data is possible in ERP?
- Artificial Intelligence (AI)
- Internet of ~~⊗~~ Things (IOT)

## Probable Long Questions Part - 11

- Role of IT in modern business
- Transmission Media
- Network Devices
- Network Topologies
- Types of Networks
- OSI Model (In detail)
- Network protocols
- Internet Associated Attacks (~~CC~~) (Cyber Crime)
- Various types of risks associated with internet security.
- Internet security services
- Remedies of internet attacks/cyber crime.
- Data vs Information (In detail)
- File vs Database (In detail)
- Database Models (In detail)
- DBMS Architecture (3 Tier Architecture)
- Database Languages
- Knowledge Discovery in Database (KDD) process
- Data Mining Techniques
- Relationship between Data Mining and Business Intelligence
- Modern Trends in E-Government
- Components of Datawarehouse  
steps to implement Datawarehouse  
Need & usage of Datawarehouse
- OLAP
- Difference between OLAP & OLTP
- Advantage and Limitation of database system
- Information system and its components
- MIS and its components
- Scope of MIS
- Characteristics of MIS
- Functions of MIS
- Any Functional Information system with case study  
[MMIS / HRIS / FMIS / TMS]

- Types of DSS
- MIS Application in Industries  
(Hospital, Hotel, Bank, Manufacturing)
- Evolution of ERP systems
- Data Integration mechanism in ERP
- ERP implementation and cost components.
- Role of Manager in implementing ERP
- Issues in ERP implementation
- Emerging trends of ERP application
- ERP application in Functional Areas  
(HCM / FM / SRM / IM)

## Probable Long Questions

### part - III

- Classification of Information system.
- Decision support system and its components
- ERP, Benefits, Features, Need of ERP systems.

N.B → In part III, questions may be asked by combining individual questions of part - II category. Therefore you are advised to prepare every questions of part - II in order to answer every ~~to~~ question of part - III category.

BEST OF LUCK