

18MBA 207
FUNDAMENTALS OF IT & ERP
Probable Questions

Part - I

- 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, Non Repudiation, Authentication
- Data vs Information [only Definition]
- Knowledge
- Database
- DBMS
- Data-warehouse
- 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 MRP II 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 - II

- Role of IT in Modern business
- Transmission Media
- Network Devices
- Network Topologies
- Types of Networks
- OSI Model (In detail)
- Network protocols
- Internet Associated Attacks (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 / TMTS)

- 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 question of part - III category.

BEST OF LUCK