

CORPORATE INSTITUTE OF SCIENCE & TECHNOLOGY, BHOPAL

Model Questions

Subject : Basic computer Engineering (BE-205)

Important questions of

UNIT 1

Q.1 Explain the major component/Architecture/Block diagram of computer? (CPU, ALU, Registers, BUS, Memory)

Q.2 Explain bus with their types & also Registers and their types? (Data bus, Add. Bus, control bus & Instruction register, program counter, MAR, MBR)

Q.3 Explain memory hierarchy & types of memory in details? Also compare RAM v/s ROM & primary v/s secondary memory? (Memory types RAM ROM, Cache memory with diagram)

Q.4 Explain system software & application software?

Q.5 Explain the various applications of computer? (Bio-informatics, E-commerce, Remote sensing, GIS)

Q.6 Explain operating system with diagram?

(a) Explain the various functions of operating system? (Resource sharing, security, Interface etc)

(b) Explain the types of operating system? (Batch, single user multi user, multitasking time sharing, embedded etc)

Q.7 Explain file management & process management with process control block (PCB)?

UNIT 5

Q.8 Explain DBMS and its architecture with block diagram?

Q.9 Explain file based approach & data base approach?

Q.10 Explain various types of data models in details? (Network, relational, hierarchical & physical data model)

Q.11 Write short notes on the following?

(a) DBA (Data base Administrator)

(b) Data dictionary & data independence

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(C) keys (primary key, candidate key, secondary key, alternate key etc)

Q.12 what is DDL (Data definition language) & DML (Data manipulation language)?

Q.13 Explain cloud computing its infrastructure with advantages & disadvantages?

Q.14 Explain various cloud models?(IaaS,PaaS,SaaS)

Q.15 Explain the various types of cloud?(Public, Private, Community & Hybrid)

UNIT-4

Q.16 Explain OSI model with functions of each layer in details?

Q.17 Explain TCP/IP model in details? And also compare the OSI v/s TCP/IP model?

Q.18 Explain various internetworking devices?(Bridge,Router,Gateway,Hub,Switch)?

Q.19 Explain Virus, Worm, Spyware, Logic bomb & Trojan horse?

Q.20 Write short notes on the following-

(a) Email spoofing

(b) Firewall & its types

(c) Money Laundering

(d) Dos (Denial of service)

Q.21 What are the good computer security habits & also explain the various types of cyber crime & penalties under IT act.

UNIT- 3

Q.22 Explain scope resolution operator & inline function with example?

Q.23 Explain Inheritance & their types with example? (Single, multiple etc)

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Q.24 Explain Polymorphism & their types (Function overloading, operator overloading & virtual function)

Q.25 Explain constructor and their types?

Q.26 Explain class and objects? With example?

Q.27 Explains data structure in details?

UNIT -2

Q.28 Explain Algorithm Complexity & flow chart with diagram?

Q.29 Explain the characteristics/Features of Object oriented programming (OOP)?

Q.30 Compare the difference between OOP v/s POP?

Q.31 Explain various Data types in details?

Q.32 Explain Array and its types?

Q.33 Explain control structure/statement in details?(For loop, while loop ,do-while loop etc)?