

BRA BIHAR UNIVERSITY, MUZAFFARPUR
DIRECTORATE OF DISTANCE EDUCATION
PROFESSIONAL COURSE: MODEL QUESTIONS

MSCIT/MIT18/4TH/Client Server Architecture

- Q. 1. Explain the differences between 2-tier and 3-tier architecture.
- Q. 2. Give a brief explanation on Message oriented Middleware.
- Q. 3. Write a descriptive note on complementary technologies to 3-tier.
- Q. 4. Briefly explain the Distributed Computing Architectural Framework.
- Q. 5. Discuss and explain the RMI System.
- Q. 6. Explain the various interfaces that go into developing application in RMI.
- Q. 7. Why write Distributed Applications?
- Q. 8. Write and explain the DCOM Architecture.
- Q. 9. What do you mean by Object Adapters in CORBA?
- Q.10. Write a brief explanation about CORBA.
- Q.11. Explain the CORBA ORB Architecture.
- Q.12. Create an application for any system in CORBA.
- Q.13. What do you mean by OMG Interface Definition Language (OMG IDL).
- Q.14. How to achieve Location Independence Connection Management in distributed applications using DCOM.
- Q.15. Write short note on any two of the following:
 - a) Local Independence
 - b) Concurrency Management
 - c) Load Balancing.

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PROFESSIONAL COURSE: MODEL QUESTIONS

MSCIT/MIT19/4TH/Voice Over IP

- Q. 1. What are the key benefits of VoIP?
- Q. 2. What is Virtual Private Voice Networks? Also explain the Service Provider Services.
- Q. 3. Explain Loop-Start and Ground-Start Signaling.
- Q. 4. What do you mean by PSTN and ET? Also discuss about similarities and differences between PSTN and ET.
- Q. 5. What are the Key benefits of VoIP?
- Q. 6. Explain the OSI Reference Model in brief.
- Q. 7. What is PCM? Explain briefly.
- Q. 8. Write and explain about Congestion Avoidance.
- Q. 9. What is Backbone QoS Wrap-up?
- Q.10. What do you mean by SIP messages? Discuss the basic operation of SIP.
- Q.11. Discuss and explain Call Control Signaling.
- Q.12. What is H.323? Discuss the various elements of H.323..
- Q.13. write and explain the “Simple Gateway Control Protocol”.
- Q.14. What is Virtual Switch? Explain the Packet Voice Network. .
- Q.15. Write short note on any two of the following:
- a) Packet Loss b) Transport Protocol c) IP Addressing.

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PROFESSIONAL COURSE: MODEL QUESTIONS

MSCIT/MIT20/4TH/MIS

- Q. 1. What is an Organization? Define MIS and its objectives.
- Q. 2. What are the various steps in the implementation of an MIS?
- Q. 3. What is data processing? Also explain Information Systems.
- Q. 4. What are the recent developments in Database Technology?
- Q. 5. Define DSS. What are its characteristics?
- Q. 6. Briefly explain the various applications of DSS.
- Q. 7. What is System? Explain the various types of Systems.
- Q. 8. Write and explain Human Resource Information Systems.
- Q. 9. Briefly explain the various components of Artificial Intelligence.
- Q. 10. What are the various applications of expert systems?
- Q. 11. Briefly explain the various types of Office Automation System.
- Q. 12. Mention the advantages and disadvantages of Client Server System.
- Q. 13. Write and explain the process model of the Organization.
- Q. 14. What do you mean by Decision making Methodologies?
- Q. 15. Write short notes on any two:
- a.) Role of IT in BPR b.) Explain RAD c.) Database Model.

BRA BIHAR UNIVERSITY, MUZAFFARPUR
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PROFESSIONAL COURSE: MODEL QUESTIONS
MSCIT/MIT21/4TH/Internetworking with TCP/IP

- Q. 1. What is Bootstrap Protocol? Explain.
- Q. 2. Discuss Network Interface using any OS.
- Q. 3. What is DHCP Protocol? Also explain how can it be installed in Linux OS.
- Q. 4. Compare all Interior Gateway Protocol with their possible use.
- Q. 5. What is OSPF? Explain its working.
- Q. 6. Write and explain BGP components and it's working.
- Q. 7. What is port? How it is used to identify a program with the help of Socket? Give example.
- Q. 8. What is the use of Socket? Explain with the help of Client Server Architecture.
- Q. 9. Write and explain all networking API.
- Q. 10. Design a FTP server for a E-Learning web site..
- Q. 11. What is SMPT? How it is routed through network?
- Q. 12. Design a security required for a bank like SBI.
- Q. 13. What is Firewall? How and where it can be used in Banking System?
- Q. 14. What is IPSec? Also explain AH, ESP and IKE.
- Q. 15. Write short notes on any two:
- a.) Physical Network Type
 - b.) RPC(Remote Procedure Call)
 - c.) Hypertext Transfer Protocol.

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PROFESSIONAL COURSE: MODEL QUESTIONS

MSCIT/MIT22/4TH/JAVA Beans(with Servlets, JDBC, JSP, EJB) & XML

- Q. 1. What is Servlets? What is the need for it?
- Q. 2. What is Response Redirection? Explain in brief.
- Q. 3. What are HTTP Response Codes? Explain different groups of response codes.
- Q. 4. Discuss in brief the need for JDBC.
- Q. 5. Write and explain the mapping of SQL data types to Java Types.
- Q. 6. Write a JAVA program to fetch the employee details from the database on entering employee no.
- Q. 7. Differentiate between Servlets and JSP.
- Q. 8. Create a form which you fetch the student details and insert the data into the database using JSP.
- Q. 9. Write and explain the need of a Distributed Architecture.
- Q. 10. What do you mean by the logical architecture of an EJB?
- Q. 11. What is XML? Discuss in brief the structural representation of Data.
- Q. 12. What is XML Architecture? Discuss about basic XML rules.
- Q. 13. What is an XML Namespace? Also justify the reasons for Namespace.
- Q. 14. Define XML and Style Sheets. Also explain about choosing between CSS and XSL.
- Q. 15. Write short notes on any two:
- a.) JSP Documents
 - b.) RMI(Remote Method Invocation)
 - c.) DTD(Document Type Declarations).
