

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

**BSCIT/3<sup>RD</sup>/BIT13-OOPS with Java**

- Q. 1. What do you mean by Java Virtual Machine?
- Q. 2. Define Bytecode. Write different features of Java.
- Q. 3. How do you compile and execute a Java program?
- Q. 4. Discuss and explain control flow statements used in Java in detail.
- Q. 5. Write a Java program to print the address of the study centre.
- Q. 6. What is difference between overloading and overriding?
- Q. 7. How inheritance is achieved in Java? Show with one example.
- Q. 8. What do you mean by an array? Explain with an example.
- Q. 9. What is importance of using package in Java?
- Q. 10. Define Interface. Differentiate between Interface and Class.
- Q. 11. Discuss exceptions. What is User defined Exceptions?
- Q. 12. What is FileInputStream and FileOutputStream?
- Q. 13. What are the restrictions on an Applet? What is the life cycle of an applet class?
- Q. 14. Why are streams used in Java? Give suitable example.
- Q. 15. Write short notes on any two:
  - a.) Applet Tag
  - b.) JDBC
  - c.) Java Database Connectivity.

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**PROFESSIONAL COURSE: MODEL QUESTIONS**

**BSCIT/3<sup>RD</sup>/BIT14-RDBMS with SQL**

- Q. 1. Define RDBMS? Also explain different features of MySQL.
- Q. 2. Explain three schema structures. What are the limitations of the Hierarchical model or Network data model?
- Q. 3. What is the purpose of Hashing? What do you mean by the collision?
- Q. 4. What is the signification of Integrity constraints? Differentiate entity integrity and referential integrity constraints.
- Q. 5. Write and explain about stored procedures and routines.
- Q. 6. Define an entity, an attribute and a relationship. Discuss different kinds of relationship.
- Q. 7. Explain the following SQL commands with example CREATE, SELECT, and JOIN.
- Q. 8. What is normalization? Differentiate 3NF, BCNF and 4NF.
- Q. 9. Explain the use of cryptography. What do you understand by public key encryption?
- Q. 10. Describe feature about RDBMS. Explain about primary, foreign and candidate key.
- Q. 11. What are the SQL server 2005 administrative tools?
- Q. 12. Explain in brief the installation procedure for SQL server 2005.
- Q. 13. What are the data types used in SQL server 2005?
- Q. 14. Why are use indexes? How many types of indexes are there in SQL server 2005?
- Q. 15. Write short notes on any two of the following:
- a) Transact SQL                      b) The Relational Model                      c) Second Normal Form

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**PROFESSIONAL COURSE: MODEL QUESTIONS**  
**BSCIT/3<sup>RD</sup>/BIT15-TCP/IP**

- Q. 1. Briefly discuss the functions of Transport Layer.
- Q. 2. What do you mean by RFC? Explain its significance.
- Q. 3. List the different functions of the TCP and IP protocols.
- Q. 4. Draw the sample network structure and briefly describe each of the components in the network.
- Q. 5. Explain the purpose of NCP and PPP.
- Q. 6. Explain the concept of Multi-protocol encapsulation in ATM networks.
- Q. 7. What is fragmentation? Explain its significance.
- Q. 8. Explain the steps involved in DHCP client server interaction.
- Q. 9. Clearly differentiate between ARP and RARP.
- Q. 10. What is socket? Give an example.
- Q. 11. What are the flags in TCP? When and how are they affected?
- Q. 12. Discuss the various steps in domain name resolution.
- Q. 13. Explain various operations performed by the user with FTP.
- Q. 14. What are the various steps involved in SMTP mail transaction flow?
- Q. 15. Write short notes on any two:
  - a.) POP (Post Office Protocol)
  - b.) HTTP operation
  - c.) The SNMP Model.

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**PROFESSIONAL COURSE: MODEL QUESTIONS**

**BSCIT/3<sup>RD</sup>/BIT16-Multimedia System**

- Q. 1. What is Multimedia? Briefly explain elements of multimedia.
- Q. 2. What is Internet? Briefly explain Hypertext and Hypermedia.
- Q. 3. How digital media's are useful in day to day life?
- Q. 4. Define the Drawing. Also explain elements of Drawing.
- Q. 5. What is the role of drawing in day to day life?
- Q. 6. Discuss and explain about Perspective Drawing.
- Q. 7. What do you mean by Colour? What are the characteristics of colour?
- Q. 8. What is the difference between primary and secondary colour?
- Q. 9. Discuss and explain about Colour Modes and Models.
- Q. 10. What is font? Briefly explain classification of fonts.
- Q. 11. What do you mean by ancient writing system?
- Q. 12. What is Radial Symmetry? Also explain Inverted Symmetry
- Q. 13. What is Image Resolution? Also differentiate between Pixel and Resolution.
- Q. 14. What is JPEG? How PDF is useful in document creations?
- Q. 15. Write short notes on any two:
- a.) Analogous Colours                      b.) Data Encoding and Reading                      c.) PostScript fonts.

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**PROFESSIONAL COURSE: MODEL QUESTIONS**

**BSCIT/3<sup>RD</sup>/BIT17-Website Design**

- Q. 1. What are the requirements for Internet Connections?
- Q. 2. Discuss and explain the Internet from practical and technical angle.
- Q. 3. Write and explain Domain Name System and DNS servers.
- Q. 4. Briefly explain the various tools for validating HTML document.
- Q. 5. What is the use of client-side image maps? Also explain Transparent Graphics.
- Q. 6. Write and explain various Tag used in Table.
- Q. 7. Briefly explain how the style sheets can be used to support multiple browsers.
- Q. 8. Write and explain about the various XML tools.
- Q. 9. With the example explain the need for CDATA section in XML
- Q. 10. Explain the Union and List data types in XML
- Q. 11. Briefly explain the sending and receiving SOAP messages.
- Q. 12. What is UDDI Registries? Also explain the ebXML registry and repository.
- Q. 13. What is XSLT templates? How do you declare a XSL stylesheet?
- Q. 14. What is XSL-FO namespace? Also explain the page format specifiers in XSL-FO.
- Q. 15. Write short notes on any two:
- a.) MIME                      b.) Target Traffic    c.) Search Engine.

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