

M.C.A. DEGREE EXAMINATION  
Second Year  
Paper I — SOFTWARE ENGINEERING  
**Assignment-1**

**Answer Allquestions**

1. Explain the steps involved in software engineering.
  2. Discuss about Requirement Engineering.
  3. Write about Design Engineering.
  4. Explain about Testing Tactics.
  5. Explain the steps involved in process models.
  6. Explain briefly about A Generic view of process.
  7. Explain about Software Engineering practice.
  8. Write about System Engineering.
  9. Discuss about Building model concepts.
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**Assignment-1I**

**Answer Allquestions**

10. Explain about waterfall model.
  11. What is the importance of Testing?
  12. Explain about Testing strategies.
  13. What is meant by product metrics?
  14. What is Software Engineering?
  15. Define System Engineering.
  16. Define Testing.
  17. What are different types of Testing methods?
  18. Define product metrics.
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Paper II — PROGRAMMING WITH JAVA  
Assignment-1

**Answer All questions.**

1. Give brief description about Java.
2. Write about string concepts.
3. Explain about Interaction concepts.
4. Discuss about Composition and Inheritance Techniques.
5. Write a short notes on Files and Screens.
6. Explain briefly the importance of strings.
7. Discuss about selection concepts.
8. Write briefly about methods involved in Java.
9. Explain about classes and objects used in Java.

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Assignment-2

**Answer All questions.**

10. Give detailed notes on arrays.
  11. Explain the collection concepts in Java.
  12. Write briefly about Graphics used in Java.
  13. Explain the functionality of Applets in java.
  14. Define spring function.
  15. Define selection.
  16. Define class.
  17. Define object.
  18. Define Interfaces.
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Paper III — COMPUTER NET WORKING

Assignment-1

**Answer All questions.**

1. Explain about data communications.
  2. Discuss about network technologies.
  3. Write about switching concepts in networking.
  4. Explain about services and applications.
  5. Discuss about security concepts in networking.
  6. Explain about communication networks.
  7. Discuss and multiple access.
  8. Explain about naming concepts in networking.
  9. Write about addressing concepts in networking.
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Assignment-2

**Answer All questions.**

10. Discuss about routing?
  11. Explain about calculation method involved in networking.
  12. Write short notes on binary arithmetic calculation.
  13. Give brief description about Ip address calculation.
  14. What is meant by networking?
  15. Explain the importance of multiple access.
  16. Define naming.
  17. Define addressing.
  18. Define security.
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Paper IV — COMPUTER ALGORITHMS

Assignment-1

Answer All questions.

1. Explain about elementary data structures.
  2. Write about divide and conquer method.
  3. Explain the importance of programming in computer Algorithms.
  4. Write about Back Tracking Algorithm.
  5. Explain about Branch and Bound.
  6. Explain the terms of computer Algorithm.
  7. Discuss about Greedy method.
  8. Write about Dynamic programming concepts.
  9. What is search technique in computer algorithms?
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Assignment-2

Answer All questions.

10. What is Basic Traversal Technique?
  11. Explain about other techniques involved in computer algorithms.
  12. Explain about Traversal concept.
  13. Discuss the steps involved in Branch and Bound.
  14. Explain Algorithm.
  15. Give the importance of an Algorithm.
  16. Define programming.
  17. What is Traversal?
  18. What is Tracking?
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Paper V — DISTRIBUTED OPERATING SYSTEMS

Assignment-1

**Answer All questions.**

1. Discuss briefly about distributed systems.
  2. Explain about communication in distributed system.
  3. Write short notes on synchronization.
  4. Explain about processor in distributed systems.
  5. Explain the steps involved in distributed file systems.
  6. Explain the importance of operating systems.
  7. Discuss about different types of communications.
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Assignment-2

**Answer All questions.**

8. Write about synchronization.
  9. Explain about distributed systems.
  10. Discuss about process.
  11. What is a file?
  12. Discuss about distributed file systems.
  13. What is meant by distributed operating systems?
  14. Define operating systems.
  15. Define communication.
  16. Define synchronization.
  17. Define file.
  18. Define process.
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Paper VI — COMPUTER GRAPHICS

Assignment-1

**Answer All questions.**

1. Discuss briefly about computer graphics.
  2. Explain about image presentation.
  3. Write about Two-Dimensional Transformation.
  4. Explain about Three-Dimensional viewing.
  5. Discuss about geometric representation.
  6. Explain about scan conversion.
  7. Explain about the two dimensional viewing.
  8. Discuss the importance of two-dimensional clipping.
  9. What is meant by three-dimensional transformation?
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Assignment-2

**Answer All questions**

10. Write about Three-dimensional clipping.
  11. Discuss about mathematics of projection.
  12. Explain the steps involved in geometric representation.
  13. Explain about Hidden surfaces.
  14. Define graphics.
  15. Define Transformation.
  16. Explain about two-dimensional concept.
  17. Discuss about three-dimensional concept.
  18. What is meant by Hidden surfaces?
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Paper VII — E-COMMERCE

Assignment-1

**Answer All questions.**

1. Discuss about enabling technologies of WWW.
  2. Explain about e-security concepts.
  3. Write about e-payment systems.
  4. Explain e-customer relationship management.
  5. Discuss about mobile commerce.
  6. Write short notes on e-commerce.
  7. Discuss about business models for e-commerce.
  8. What is e-marketing? Explain.
  9. Explain about e-supply chain management.
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Assignment-2

**Answer All questions**

10. Write about e-strategy.
  11. Discuss about intelligent web design.
  12. What is e-payment?
  13. Explain the different technologies used in e-commerce.
  14. Define e-Commerce.
  15. Define e-Marketing.
  16. Define e-Security.
  17. Explain the importance of Business Models.
  18. Explain the importance of E-Commerce.
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Paper VIII — PROBABILITY AND STATISTICS  
Assignment-1

**Answer All questions.**

1. State and prove addition theorem of probability.
  2. What is normal distribution? Highlight its important properties.
  3. How do you test the equality of variance of two normal populations. What are the properties of F-test?
  4. Describe the technique of the analysis of variance. Write down the analysis table for a one-way layout.
  5. What are the applications of reliability? Explain.
  6. What is conditional probability? Explain.
  7. What are the properties of distribution function?
  8. Explain the important features of binomial distribution.
  9. What are the properties of t-test?
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Assignment-2

**Answer All questions.**

10. To fit a straight line of the form  $y = a + bx$ .
  11. Explain the properties of least squares.
  12. Explain two way analysis of variance.
  13. What do you understand by reliability?
  14. Define complementary event.
  15. Define probability density function.
  16. If the events A and B are independent, then  $P(A \cap B)$  is \_\_\_\_\_.
  17. Application of F-test.
  18. The minimum number of observations required for t-test in a sample is \_\_\_\_\_.
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