Code No: R05320506 | R05 | Set No. 2

III B.Tech II Semester Examinations,December 2010
SOFTWARE TESTING METHODOLOGIES
Common to Information Technology, Computer Science And Engineering
Time: 3 hours   Max Marks: 80
Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. Explain essential and inessential finite-state behavior with examples.   [16]

2. Compare the transaction testing strategies with the data-flow testing strategies.
                                                                                  [16]

3. (a) What is meant by a nice domain? Give an example for nice two-dimensional domains.
   (b) Discuss the following terms: [8+8]
       i. Linear domain boundaries
       ii. Non linear domain boundaries
       iii. Complete domain boundaries
       iv. Incomplete domain boundaries

4. (a) What is meant by a test case? Discuss when the testing process will be stopped?
   (b) What are the factors which will decide the importance of a bug? Discuss them clearly.   [8+8]

5. Minimize the following logic function using Karnaugh Map method :
   $F(A, B, C, D) = ABC'D + A'BCD + A'B'C' + A'B'D' + AC' + AB'C + B'$.   [16]

6. Explain about Regular Expressions and Flow-Anomaly Detection.   [16]

7. (a) Explain clearly the single link marker path instrumentation with an example.
   (b) Discuss how path testing is useful to host a new code, maintenance.   [8+8]

8. (a) How can the graph be represented in matrix form?
   (b) Discuss Node reduction algorithm.
   (c) How can node reduction optimization be done?   [3+7+6]

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1

Code No: **R05320506** **R05** **Set No. 4**

III B.Tech II Semester Examinations,December 2010
SOFTWARE TESTING METHODOLOGIES
Common to Information Technology, Computer Science And Engineering
Time: 3 hours
Max Marks: 80
Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. (a) What is meant by a nice domain? Give an example for nice two-dimensional domains.
   (b) Discuss the following terms: [8+8]
      i. Linear domain boundaries
      ii. Non linear domain boundaries
      iii. Complete domain boundaries
      iv. Incomplete domain boundaries

2. (a) How can the graph be represented in matrix form?
   (b) Discuss Node reduction algorithm.
   (c) How can node reduction optimization be done? [3+7+6]

3. Explain about Regular Expressions and Flow-Anomaly Detection. [16]

4. Compare the transaction testing strategies with the data-flow testing strategies.
   [16]

5. (a) Explain clearly the single link marker path instrumentation with an example.
   (b) Discuss how path testing is useful to host a new code, maintenance. [8+8]

6. Minimize the following logic function using Karnaugh Map method :
   $F(A, B, C, D) = ABC'D + A'BCD + A'B'C' + A'B'D' + AC' + AB'C + B'$. [16]

7. Explain essential and inessential finite-state behavior with examples. [16]

8. (a) What is meant by a test case? Discuss when the testing process will be stopped?
   (b) What are the factors which will decide the importance of a bug? Discuss them clearly. [8+8]

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2

Code No: R05320506 **R05** **Set No. 1**

III B.Tech II Semester Examinations,December 2010
SOFTWARE TESTING METHODOLOGIES
Common to Information Technology, Computer Science And Engineering
Time: 3 hours Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. Minimize the following logic function using Karnaugh Map method :
   $F(A, B, C, D) = ABC'D + A'BCD + A'B'C' + A'B'D' + AC' + AB'C + B'$. [16]

2. Explain essential and inessential finite-state behavior with examples. [16]

3. (a) How can the graph be represented in matrix form?
   (b) Discuss Node reduction algorithm.
   (c) How can node reduction optimization be done? [3+7+6]

4. (a) What is meant by a test case? Discuss when the testing process will be stopped?
   (b) What are the factors which will decide the importance of a bug? Discuss them clearly. [8+8]

5. (a) What is meant by a nice domain? Give an example for nice two-dimensional domains.
   (b) Discuss the following terms: [8+8]
      i. Linear domain boundaries
      ii. Non linear domain boundaries
      iii. Complete domain boundaries
      iv. Incomplete domain boundaries

6. Explain about Regular Expressions and Flow-Anomaly Detection. [16]

7. (a) Explain clearly the single link marker path instrumentation with an example.
   (b) Discuss how path testing is useful to host a new code, maintenance. [8+8]

8. Compare the transaction testing strategies with the data-flow testing strategies.
   [16]

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3

Code No: R05320506   **R05**   **Set No. 3**

III B.Tech II Semester Examinations,December 2010
SOFTWARE TESTING METHODOLOGIES
Common to Information Technology, Computer Science And Engineering
Time: 3 hours   Max Marks: 80
Answer any FIVE Questions
All Questions carry equal marks
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1. (a) What is meant by a test case? Discuss when the testing process will be stopped?

   (b) What are the factors which will decide the importance of a bug? Discuss them clearly.   [8+8]

2. Minimize the following logic function using Karnaugh Map method :
   $F(A, B, C, D) = ABC'D + A'BCD + A'B'C' + A'B'D' + AC' + AB'C + B'$.   [16]

3. (a) Explain clearly the single link marker path instrumentation with an example.

   (b) Discuss how path testing is useful to host a new code, maintenance.   [8+8]

4. Explain about Regular Expressions and Flow-Anomaly Detection.   [16]

5. (a) How can the graph be represented in matrix form?

   (b) Discuss Node reduction algorithm.

   (c) How can node reduction optimization be done?   [3+7+6]

6. (a) What is meant by a nice domain? Give an example for nice two-dimensional domains.

   (b) Discuss the following terms: [8+8]
      i. Linear domain boundaries
      ii. Non linear domain boundaries
      iii. Complete domain boundaries
      iv. Incomplete domain boundaries

7. Explain essential and inessential finite-state behavior with examples.   [16]

8. Compare the transaction testing strategies with the data-flow testing strategies.
                                                                           [16]

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