

G 1680

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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

Branch : Information Technology

IT 010 801—WIRELESS COMMUNICATION (IT)

(New Scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. What is spread spectrum transmission ?
2. How time-hopping code division multiple access works ?
3. What is gateway mobile switching center ?
4. List the service categories provided by universal mobile telecommunication system (UMTS).
5. Why wireless local loop (WLL) is sometimes called radio in the loop or fixed-radio access ?

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. What is handover ? How handover in code division multiple access and time division multiple access differ ?
7. How direct-sequence code division multiple access works ?
8. What is GPRS tunnelling protocol-user ? Discuss.
9. Define IP multimedia subsystem (IMS) and list the functional elements that comprise it.
10. What is digital video broadcasting-handheld (DVB-H) ?

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. Explain frequency division multiple access and time division multiple access with example and diagrammatic illustration.

Or

Turn over

12. Discuss the physical layer in wideband code division multiple access air interface protocol model.
13. (a) What is modulation ? Explain quadrature phase shift keying modulation. (8 marks)
(b) State Shannon's law. (4 marks)

Or

14. (a) Explain cyclic redundancy check with example. (8 marks)
(b) List the functions of the sublayer radio link control of the data-link layer in the wideband code division multiple access air interface protocol stack. (4 marks)
15. Explain with diagrammatic illustration universal mobile telecommunication system (UMTS) network elements and interfaces.

Or

16. Discuss multimedia messaging services in universal mobile telecommunication system (UMTS) network.
17. List and explain the four classes QoS requirements in universal mobile telecommunication system (UMTS) can be divided into.

Or

18. (a) Explain how session initiation protocol (SIP) works. (8 marks)
(b) List and explain IP multimedia subsystem (IMS) services. (4 marks)
19. Present diagrammatically a basic wireless local loop (WLL) communication system and discuss the same.

Or

20. Discuss local multipoint distribution service (LMDS) technology.

(5 × 12 = 60 marks)

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Reg. No.....

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B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

Branch : Information Technology

IT 010 802—CRYPTOGRAPHY AND NETWORK SECURITY (IT)

(New Scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Define Euler's Totient function. Give an example.
2. Explain Symmetric Ciphers.
3. Give details on public key cryptography.
4. What is meant by S/MIME ?
5. What are intruders ?

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Explain Fermat's Theorem with example.
7. Describe in detail about Symmetric Cipher Model.
8. Give notes on Elliptic Curve Cryptography.
9. What do you know about Pretty Good Privacy ?
10. Illustrate Password Management.

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. Explain Chinese Remainder Theorem.

Or

12. Explain Linear and Quadratic Congruence.

Turn over

13. Describe the stream and block ciphers.

Or

14. Describe confidentiality using symmetric Encryption.

15. Write in detail about Diffie-Hellman key exchange.

Or

16. Elaborate Message Authentication Codes.

17. Explain about Electronic Mail Security.

Or

18. Discuss in detail about IP Security Architecture.

19. Give notes on Viruses and Related Threats.

Or

20. What are the principles of Firewall Design ?

(5 × 12 = 60 marks)

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B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

Branch : Information Technology

IT 010 804 L01—SOFTWARE TESTING (Elective III) (IT)

(New Scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Define software testing.
2. What are the various methods used for verification ?
3. Explain about requirement testing.
4. Why we need test policy ? Explain.
5. What is defect density ? Explain.

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. What are the various cost aspects related to testing ?
7. Explain validation process.
8. What is design testing ?
9. What are test cases ? What are its advantages ?
10. What is a test report ? Explain.

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. Explain various testing methodologies.

Or

12. What is the purpose of having configuration management process ? Explain.

Turn over

13. What is V model ? List the advantages and disadvantages of this model.

Or

14. Explain defect life cycle.

15. Explain various acceptance testing criteria.

Or

16. Briefly explain alpha and beta testing.

17. Explain the role of test cases in testing.

Or

18. With an example, explain how to build test data.

19. Explain in detail, test team efficiency and test case efficiency.

Or

20. How to implement measurement reporting system in an organization ? Explain.

(5 × 12 = 60 marks)

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B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

Branch : Information Technology

IT 010 805 G04—ELECTRONIC BUSINESS AND SERVICES (Elective IV) (IT)
(New Scheme)

[2010 Admission onwards—Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

*Answer all questions.
Each question carries 3 marks.*

1. What are the various applications of e-commerce ?
2. Write short note on digital signature.
3. What are the requirements of e-payment system ?
4. Write short note on recent advances in CCFD.
5. What is meant by e-publishing ?

(5 × 3 = 15 marks)

Part B

*Answer all questions.
Each question carries 5 marks.*

6. Write note on business to customer e-commerce.
7. What is triple DES ? Explain with a block diagram.
8. List the advantages and disadvantages of electronic cash.
9. Briefly explain CCFD using Bayesian Inferencing.
10. What are the primary objectives of IT Act 2000 ? What are the major aspects of this act ?

(5 × 5 = 25 marks)

Turn over

Part C

*Answer all questions.
Each full question carries 12 marks.*

11. Write the advantages and disadvantages of e-commerce.

Or

12. What is meant by m-commerce ? List the applications of m-commerce. Explain the layered architecture of m-commerce.

13. Explain symmetric data encryption with neat block diagram. What are the various requirements of symmetric encryption ?

Or

14. Explain Diffie-Hellman key exchange algorithm.

15. Write notes on SET protocol and Electronic Fund Transfer.

Or

16. What is meant by mobile payment ? Explain various types of mobile payment systems.

17. Explain BLAST-SAHA Hybridization in credit card fraud detection.

Or

18. What is CCFD ? Explain computational intelligence techniques in credit card fraud detection.

19. What is multimedia ? Discuss multimedia applications for E-business.

Or

20. Explain in detail about Intellectual Property Issues.

(5 × 12 = 60 marks)