

F 3260

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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Computer Science and Engineering

CS 010 804 L05—MOBILE COMPUTING (Elective III) [CS]

(New Scheme—2010 Admissions—Supplementary)

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Differentiate broadcast from multicast.
2. Name some key features of the GSM.
3. How is hidden node problem solved by WLANs ?
4. What do you mean by mobility binding ?
5. Explain the usage of HTML.

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Write a note on multimedia object transfer protocol.
7. How are slot, frame, multiframe and superframe related in GSM ?
8. Discuss various handover scenarios used in Wireless ATM.
9. Describe dynamic host configuration protocol.
10. Why has a scripting language been added to WML ?

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. Discuss the basic operation of a cellular system. Explain its advantages and disadvantages.

Or

Turn over

12. Write a note on :

(a) Wireless local loop. (5 marks)

(b) Digital video broadcasting. (7 marks)

13. Explain DECT architecture.

Or

14. (a) Explain the various security services offered by GSM. (6 marks)

(b) Write a note on GEO satellite systems. (6 marks)

15. Explain Bluetooth architecture and protocol stack.

Or

16. Write a note on :

(i) Access point control protocol (APCP). (6 marks)

(ii) Location management in Wireless ATM. (6 marks)

17. (a) Explain the working of a mobile IP with the help of a suitable example. (8 marks)

(b) Why is TCP not useful in mobile network ? (4 marks)

Or

18. (a) Discuss the routing algorithm in ad-hoc network. (6 marks)

(b) Write a note on IPv6. (6 marks)

19. Explain WWW system architecture.

Or

20. (a) What is the difference between WAP service indication and service loading ? (6 marks)

(b) Compare WML with HTML. (6 marks)

[5 × 12 = 60 marks]

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Computer Science and Engineering

CS 010 805 G01 – MULTIMEDIA TECHNIQUES (Elective IV) [CS]

(New Scheme – 2010 Admissions – Supplementary)

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Define Multimedia and Hypermedia.
2. What is meant by quantization ?
3. Differentiate JPEG and MPEG.
4. Explain the working of CBIRD.
5. Write a note on latent semantic indexing.

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Explain MIDI and its components.
7. Write a note on Discrete Cosine Transform.
8. What is speech coding ?
9. Write a note on compress image presentations.
10. Briefly explain TV-trees.

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. What are the various graphics file format ? Explain.

Or

12. What are the different color models in image ?

Turn over

13. Explain run-length coding and variable length coding with example.

Or

14. What are distortion measures? Explain the Rate-Distortion theory.

15. What is JPEG? Explain the various steps involved in JPEG compression.

Or

16. Explain the basic video compression techniques.

17. How can you represent Image DBs with relations and R trees?

Or

18. How will you retrieve Images by special layout?

19. Explain the architecture of multimedia database.

Or

20. What are the query languages for retrieving multimedia data?

(5 × 12 = 60 marks)

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Computer Science and Engineering/Information Technology

SECURITY IN COMPUTING (RT)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Differentiate between hacking and cracking.
2. Write a note on Trojan horse.
3. Explain types of holes.
4. Define authentication.
5. What are encryption and decryption ?
6. Explain cryptanalysis.
7. Write a note on firewalls.
8. Write a note on security policy.
9. Differentiate between Application level gateways and Circuit level gateways.
10. Explain security issues in databases.

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each question carries 12 marks.

11. Explain polymorphic and metamorphic worms.

Or

12. Describe security services and mechanisms.
13. Explain access control and remote execution techniques in UNIX and WINDOWS.

Or

14. Explain discretionary and mandatory access control.

Turn over

15. Explain RSA algorithm and prove its correctness.

Or

16. Write short notes on :

- (i) Digital Signature.
- (ii) Diffie Hellman key exchange algorithm.

17. Explain IP security architecture.

Or

18. Explain security mechanisms in JAVA.

19. Write short notes on statistical database security and MAC for multilevel security.

20. Explain SQL security model.

(5 × 12 = 60 marks)

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Computer Science and Engineering

PRINCIPLES OF PROGRAMMING LANGUAGES (R)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Explain virtual computers.
2. Explain language design issues.
3. Write a note on data types.
4. Write a note on type checking.
5. What are abstract data types ?
6. Explain encapsulation.
7. What is polymorphism ?
8. What is inheritance ?
9. Explain the need of parallel programming.
10. Explain how hardware development affects programming.

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each question carries 12 marks.

11. Explain the role of programming languages.
- Or*
12. Explain various language paradigms with examples.
 13. Explain implementation of data types and data structure types.

Or

14. Write note on : (i) Type conversion. (ii) Assignment and initialization.

Turn over

15. Explain implicit and explicit sequence control with example.

Or

16. Explain sequencing with arithmetic expressions and sequence control between statements.

17. Explain attributes of data control.

Or

18. Explain shared data in subprograms.

19. Explain exception handling in JAVA with example.

Or

20. Explain architecture of a software.

(5 × 12 = 60 marks)

B.TECH. DEGREE EXAMINATION, NOVEMBER 2014**Eighth Semester**

Branch—Computer Science and Engineering/Information Technology

CLIENT SERVER COMPUTING—(Elective-II) (RT)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum :

Part A*Answer all questions.**Each question carries 4 marks.*

1. What is the role of client ?
2. What are the uses of client server computing ?
3. What are protocols ?
4. What is a request ? Give an example.
5. List the merits of multiple processor systems.
6. What are threads ?
7. What is process scheduling ?
8. What are critical sections ?
9. What are communication networks ?
10. Mention two client server applications.

(10 × 4 =

Part B*Answer all questions.**Each question carries 12 marks.*

11. Discuss the need of client server computing.
Or
12. Describe the various costs associated with client server computing.
13. Discuss two client server interaction protocols.
Or
14. Explain the client server interaction using messages.

15. Describe the features of Windows NT.

Or

16. Compare multiprogramming and multitasking.

17. Discuss the features of preemptive systems.

Or

18. Explain the use of semaphores.

19. Write a note on interprocess communication.

Or

20. Discuss the procedure to build a client server application.

(5 × 12 = 60)

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Computer Science and Engineering/Information Technology

NEURAL NETWORKS (Elective III) (RT)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Maximum : 100 Marks

Time : Three Hours

Part A

Answer all questions.

Each question carries 4 marks.

1. Explain some applications of Artificial Neural Networks.
2. Distinguish learning and training.
3. Explain temporal stability.
4. Explain network paralysis.
5. Compare different types counter propagation networks.
6. Mention few applications of FCPN.
7. Explain Boltzmann machine.
8. What are specific heat methods ?
9. Explain self organizing maps.
10. Write a note on associative memory.

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each question carries 12 marks.

11. Explain activation functions in artificial neural networks.

Or

12. Explain the training methods in ANN.
13. Explain the back propagation algorithm and its applications.

Or

14. Explain temporal stability.
15. Explain the training process in the Kohonen layer and Grossberg layer of a CPN.

Or

Turn over

- 16. With architecture give detailed description of forward only CPN.
- 17. Describe the architecture and learning process of Cauchy's machine.

Or

- 18. Explain basic of Boltzmann learning law and its significance.
- 19. Draw and explain the architecture of Adaptive Resonance Theory.

Or

- 20. Draw and explain architecture of Hopfield Model.

(5 × 12 = 60 marks)