

F 9122

(Pages : 2)

Reg. No.....¹⁷.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Seventh Semester

Branch : Computer Science and Engineering/Information Technology

COMPUTER GRAPHICS (R, T)

(Regular/Supplementary)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

1. Discuss the basic concepts of Computer Graphics.
2. Explain the applications of Raster scan Graphics.
3. Explain what is meant by line chipping.
4. Briefly explain polygon chipping.
5. Give a brief description of 3D display method.
6. Explain spline representation.
7. Explain gamma correction of intensity.
8. Write brief note on gouraud shading.
9. Briefly explain general computer animation functions.
10. Write a brief note on morphing.

(10 × 4 = 40 marks)

Part B

Each question carries 12 marks.

11. (a) List the input devices and explain the working of each.

Or

- (b) List the display devices and explain the classification of display devices used in computer graphics.

12. (a) Explain in detail Bresenham's circle drawing algorithm.

Or

- (b) Explain what is 2D transformation. Briefly explain any *two* geometric transformation applied to graphic object in 2D transformation.

Turn over

13. (a) Explain in detail Bezier curve generation technique.

Or

(b) Describe polygon surface method to represent 3D objects.

14. (a) Briefly explain classification of visible surface detection algorithms.

Or

(b) Explain the scan line method for hidden surface elimination.

15. (a) Explain in detail the self squaring fractals.

Or

(b) Briefly explain Raster Animation.

(5 × 12 = 60 marks)

F 9132

(Pages : 2)

Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Seventh Semester

Branch : Information Technology

MODERN COMMUNICATION SYSTEM (T)

(Regular/Supplementary)

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Discuss the advantages of Optical Fibre Communication system.
2. Explain Cable losses.
3. Discuss the disadvantages of microwave communication system.
4. Explain noise factor.
5. Write brief note on frequency allocation in satellite communication.
6. Give a brief explanation of GPS.
7. List the difference between macro cells and mini cells.
8. Briefly explain cell system layout.
9. Draw the ATM leader structure.
10. Discuss the advantages of wireless communication system.

(10 × 4 = 40 marks)

Part B

Each question carries 12 marks.

11. (a) Explain acceptance angle and acceptance cone.

Or

- (b) Discuss the different types of detectors used in optical communication.

12. (a) Explain microwave transmitter with proper block diagram.

Or

- (b) Explain with neat sketches microwave terminal station.

Turn over

13. (a) Explain Geostationary satellites. List the merits and demerits.

Or

(b) Briefly explain the orbital parameters related to satellite communication.

14. (a) Briefly explain the development of mobile communication system. List the merits and demerits of mobile communication system.

Or

(b) Explain how cell splitting and sectoring improve the capacity in cellular system.

15. (a) Discuss Blue tooth Technology.

Or

(b) Explain different topologies associated with LAN.

F 9142

(Pages : 2)

Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Seventh Semester

Branch : Information Technology

MULTIMEDIA TECHNIQUES (T)

(Regular/Supplementary)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

1. Define and explain Multimedia.
2. Explain the features of digital video.
3. Explain the principle and types of image compression.
4. Explain the basic idea of playback techniques in animation.
5. What is quicktime in multimedia environments ? Explain in detail.
6. Compare the features of multimedia PC with ordinary PC.
7. Explain the transform classes in multimedia programming.
8. Explain in detail the problems related to multimedia programming.
9. Explain in detail the principle of moving pictures.
10. Give an account on future multimedia.

(10 × 4 = 40 marks)

Part B

Each question carries 12 marks.

11. Explain the various media types in detail.
- Or*
12. Discuss in detail the software applications and software environments of multimedia.
 13. Give an account on :
(i) RLE ; (ii) JPEG ; (iii) TEXT.

(3 × 4 = 12 marks)

Or

14. Explain the fractal and wavelet compression techniques in detail.

Turn over

15. Explain in detail the features of multimedia PC.

Or

16. Give an account on :

- (a) CD interactive.
- (b) CD family.

(2 × 6 = 12 marks)

17. Discuss in detail the problems related to multimedia programming.

Or

18. Explain the principle of Database Integration in detail.

19. Explain the principle of full motion digital video with neat sketches.

Or

20. Explain in detail the different video capturing techniques.

[5 × 12 = 60 marks]

F 9151

(Pages : 2)

Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Seventh Semester

Branch : Computer Science and Engineering/Information Technology

WEB TECHNOLOGIES (RT)

(Regular/Supplementary)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

1. What are features of XML ?
2. What are attributes ?
3. Explain document type declaration in XML.
4. How we can store XML data in HTML ?
5. What are java beans components ?
6. What are features of Java beans ?
7. Explain request objects in JSP.
8. Discuss about scriptlets.
9. What is EJB ?
10. Explain about entity beans.

(10 × 4 = 40 marks)

Part B

Each question carries 12 marks.

11. Explain the features of XML. (6 marks)
Write XML Vs HTML. (6 marks)

Or

12. Write notes on :
 - (a) Attributes of tags.
 - (b) Entity references.
 - (c) CDATA section.

(12 marks)

Turn over

13. Explain different applications of XML.

Or

14. How to create XML DTDs ?

(12 marks)

15. Explain different types of bean properties. How to create events in java beans ?

Or

16. How to create a bean into class ? How can we use it ?

(12 marks)

17. Define JSP. Explain templating, conditionals and loops in JSP.

Or

18. Explain how accessing can be done in beans via scriptlets.

(12 marks)

19. What is entity beans ? Discuss in detail the features of entity beans.

Or

20. What are the steps involved in creating and implementing interfaces ?

(12 marks)

[5 × 12 = 60 marks]

F 9182

(Pages : 2)

Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Seventh Semester

Branch—Computer Science and Engineering/Information Technology

MOBILE COMPUTING (Elective I) (RT)

(Regular/Supplementary)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

1. Explain the function of physical layer in a wireless and mobile environment.
2. Explain DCA.
3. Explain Multimedia object transfer protocol.
4. Explain the transport mechanisms used in DAB.
5. List out the advantages of WLANs.
6. Compare 802.11 and 802.16.
7. Write notes on :
 - (a) Compatibility. (2 marks)
 - (b) Transparency. (2 marks)
8. Write note on Routing.
9. Explain WDP.
10. Write note on WTP class I.

[10 × 4 = 40 marks]

Part B

Each question carries 12 marks.

11. Write short notes on :
 - (a) MCM. (6 marks)
 - (b) Advantages of Cellular systems. (6 marks)
- Or*
12. With neat diagram, explain the simplified reference model. (12 marks)

Turn over

(12 marks)

13. Write notes on Authentication and Encryption.

Or

(12 marks)

14. Explain the system architecture of GSM system.

15. Explain :

(6 marks)

(a) Infra red vs radio transmission.

(6 marks)

(b) Infra structure and adhoc networks.

Or

(12 marks)

16. Explain the reference model of ATM and handover Scenarios.

(12 marks)

17. Explain the Goals, assumptions and requirements of mobile IP.

Or

(12 marks)

18. Explain IPV₆.

(12 marks)

19. Explain HTTP.

Or

(12 marks)

20. Explain the usage of HTML.

[5 × 12 = 60 marks]