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F 9375 (Pages : 2) Reg. No.....1 COPY.....

Name.....

B.TECH. DEGREE EXAMINATION NOVEMBER 2011

Sixth Semester

Computer Science and Engineering

PC AND PC BASED SYSTEMS (R)

(2002 Admissions onwards—Supplementary)

Time : Three Hours Maximum : 100 Marks

Part A

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

1. What is SMPS ? Explain its principle.
2. Explain the need for add-on cards in PC
3. What are sectors ? Explain in detail.
4. What is the principle of extended CHs addressing ? Explain.
5. Explain the advantages and applications of optical storage devices.
6. Explain the principle of holographic devices.
7. What is segmented addressing ? Explain.
8. Explain :
   (a) Cache memory.
   (b) Video memory in detail.
9. Explain the structure of PCI in detail.
10. Explain the principle of USB in detail.

(10 × 4 = 40 marks)

Part B

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

11. Differentiate SMPS from linear mode power supply. Explain the difference.

Or

12. Draw a neat block diagram for SMPS and explain its principle of operation in detail.
13. Explain the disk magnetic properties in detail.

Or

14. Explain the following in detail :
   (a) Logical block addressing.
   (b) Disk formatting.

Turn over

13. Explain Error-detection and correction operation in Data link layer.

Or

14. Explain static and dynamic channel allocations in LAN's and WAN's.

15. Explain the following :—

    (a) Distance vector Multicasting.

    (b) Choke packets.

Or

16. (a) Discuss congestion prevention policies.

    (b) Write notes on traffic shaping.

17. Explain the elements of transport protocols.

Or

18. Explain the OSI transport service primitives.

19. Draw the general model of an electronic mail system and explain each layer.

Or

20. Write notes on :

    (a) Bluetooth.

    (b) L2CAP layers.

(5 × 12 = 60 marks)

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Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Sixth Semester

Branch : Computer Science, Engineering/Information Technology

NETWORK COMPUTING (R,T)

(2002 Admissions onwards—Supplementary)

Time : Three Hours Maximum : 100 Marks

Answer **all** *questions.*

Part A

Each question carries 4 *marks.*

1. Write notes on tables and frames.
2. Describe DIV and SPAN tags.
3. What is meant by object model ? Explain document object model.
4. Write short notes on structured graphics.
5. Explain variables and classes in Java.
6. Write notes on GUI.
7. What is meant by Applets ? Explain.
8. Discuss Datagrams.
9. What is meant by CGI-GET and POST ? Explain.
10. Discuss HTTP Protocol.

(10 × 4 = 40 marks)

Part B

Each question carries 12 *marks.*

11. Write notes on Inline style sheets, Embedded style sheets and External style sheets.

(12 marks)

Or

12. Explain Basic tags for Font and Paragraph Formatting Lists.

(12 marks)

13. Write notes on :
    (a) Message boxes. (6 marks)
    (b) Event handling. (6 marks)

Or

14. Explain dynamic updating of pages with JAVA Script. (12 marks)

Turn over

15. (a) Explain the features of Java. (4 marks)

(b) Explain "Creating and using classes in Java". (8 marks)

Or

16. Write notes on :

(a) Anonymous Inner Classes. (6 marks)

(b) Exception handling. (6 marks)

17. With example, explain network Programming with JAVA. (12 marks)

Or

18. Write notes on :

(a) RMI. (6 marks)

(b) IP Multicasting. (6 marks)

19. Write notes on HTTP Methods. (12 marks)

Or

20. Explain the working of CGI supported web server. (12 marks)

(5 × 12 = 60 marks)

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Sixth Semester

Branch—Computer Science and Engineering

ALGORITHM ANALYSIS AND DESIGN (R)

(2002 Admissions onwards—Supplementary)

Time : Three Hours

Maximum : 100 Marks

Answers **all** *questions.*

Part A

Each question carries 4 *marks.*

1. What are the properties of an Algorithm ?
2. List out the differences between deterministic and non-deterministic algorithms.
3. Explain the differences between Merge sort and Quick sort.
4. Explain Divide–Conquer strategy with example.
5. What is the application of minimum cost spanning tree ?
6. Discuss about Prim's Algorithm.
7. Write short note on 'Multi-stage graph'.
8. Explain the complexity of k^{th} smallest element selection.
9. Define Bounding function.
10. Write short note on 'N-Queens Problem'.

(10 × 4 = 40 marks)

Part B

Each question carries 12 *marks.*

11. Discuss in detail about recursive algorithms, space and Time complexity and Asymptotic Notations.

Or

12. Explain the Computational Procedure and Program.
13. Explain Stressen's Matrix Multiplication and discuss its time complexity.

Or

14. Show the various steps involved in the Quick Sorting of (1, 3, 4, –5, 9, 2, 6, 5, 3)
15. Explain General Knapsack problem with an example.

Or

16. Discuss about Kruskal's algorithm. Find the time complexity for the algorithm.

Turn over

17. Explain how to solve the Travelling salesman problem by the Dynamic Programming Approach.

Or

18. Write short notes on :
    (a) Principle of optimality. (4 marks)
    (b) Comparision Trees for Searching and Sorting. (4 marks)
    (c) Various methods in Tree–Sort. (4 marks)

19. Explain how to solve the 15 Puzzle problem by back tracking.

Or

20. Discuss the sum of subsets problem and find a solution for it using back tracking.

(5 × 12 = 60 marks)

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Sixth Semester

Branch—Computer Science and Engineering/Information Technology

SOFTWARE ENGINEERING (R, T)

(2002 Admissions onwards—Supplementary)

Time : Three Hours Maximum : 100 Marks

Answer **all** *the questions.*

Part A

Each question carries 4 marks.

1. Explain in detail the role of management in software development.
2. What is SRS ? Explain in detail.
3. What is Project Scheduling ? Explain in detail.
4. Give an accouont on 'project monitoring plans'.
5. Explain in detail the module level concepts.
6. What is coupling in system design ? Explain in detail.
7. Explain the need for coding in Software Engineering.
8. Explain in detail "Unit testing".
9. What is Error removal efficiency ? Explain in detail.
10. Explain in detail the fundamentals of testing .

(10 × 4 = 40 marks)

Part B

11. Explain in detail the phases in software development. (12 marks)

Or

12. Discuss in detail the software development process models. (12 marks)
13. Give an account on 'COCOMO Model'. (12 marks)

Or

14. Explain the following in detail :
    (a) Cost schedule.
    (b) Milestone graph. (6 + 6 = 12 marks)
15. Explain in detail the principles of system design. (12 marks)

Or

Turn over

16. Explain the top down and bottom up system design strategies. (12 marks)

17. Explain the following in detail :

    (a) Structured programming.

    (b) Information hiding. (6 + 6 = 12 marks)

Or

18. Explain the principle of Internal documentation in detail. (12 marks)

19. Explain in detail the proneneal and structured testing. (12 marks)

Or

20. Explain in detail the reliability assessment in testing. (12 marks)

[5 × 12 = 60 marks]