

**F 3566**

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Reg. No.....*CS*.....

Name.....

**B.TECH. DEGREE EXAMINATION, NOVEMBER 2010**

**Sixth Semester**

Branch : Computer Science and Engineering

PC AND PC BASED SYSTEMS (R)

(Prior to 2007 Admissions – Supplementary)

Time : Three Hours

Maximum : 100 Marks

Answer **all** questions.

**Part A**

1. What is the significance of Add-on cards? Explain.
2. Explain the requirements of an ideal power supply.
3. Explain the principle of Disk formatting.
4. What are Clusters? Explain.
5. What are Buffers? Explain its applications.
6. What are the advantages of holographic storage? Explain.
7. Differentiate SRAM from DRAM.
8. Explain in detail about cachememory and video memory.
9. What is AGP? Explain.
10. Explain the advantages of serial and parallel communication.

(10 × 4 = 40 marks)

**Part B**

11. Draw a neat block diagram of SMPS. Explain its functioning in detail. (12 marks)

Or

12. Write technical notes on :

(a) Slots and connectors.

(b) Mother boards.

(6 + 6 = 12 marks)

**Turn over**

13. Explain the floppy disk controller with a neat diagram. Explain the limitations of floppy disk. (12 marks)

Or

14. Explain the following:

(a) Hard disk data transfer modes.

(b) Magnetic data storage.

(6 + 6 = 12 marks)

15. Explain the advantages of CD technology in details.

(12 marks)

Or

16. Explain the following in detail :

(a) RAID.

(b) CDROM.

(c) Interfaces.

(4 + 4 + 4 = 12 marks)

17. Explain the extended and expanded memory in details.

(12 marks)

Or

18. Explain the flat memory model in detail.

(12 marks)

19. Explain the ISA and PCI interfaces in detail.

(12 marks)

Or

20. Write short notes on:

(a) Keyboard / Mouse Interface Connector.

(b) Communication ports.

(6 + 6 = 12 marks)

[5 × 12 = 60 marks]

**F 3584**

Reg. No.....*CL*.....

Name.....

**B.TECH. DEGREE EXAMINATION, NOVEMBER 2010**

**Sixth Semester**

**Branch : Computer Science and Engineering**

**PROJECT MANAGEMENT AND QUALITY ASSURANCE (R)**

(Prior to 2007 admissions)

[Supplementary]

Time : Three Hours

Maximum : 100 Marks

*Part A is compulsory  
All questions carry equal marks.*

**Part A**

Write short notes on :

1. Requirements of project manager.
2. Cost benefit ratio.
3. Errors in demand forecasting.
4. ISO 14000.
5. Estimating population means.

(5 × 4 = 20 marks)

**Part B**

1. (a) Explain 7-s of project management.

*Or*

(b) Discuss the information to be contained in a project feasibility report.

2. (a) What is risk analysis ? Explain CAPM.

*Or*

(b) Explain the concepts of shadow pricing and break even analysis.

3. (a) What are the main constraints in project management and how they can be controlled ?

*Or*

(b) Explain how information system makes an impact on project management.

4. (a) Explain concept of benchmarking.

*Or*

(b) Give an account of important TQM models.

(4 × 20 = 80 marks)

**F 3601**

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Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, NOVEMBER 2010**

**Sixth Semester**

Branch—Computer Science and Engineering/Information Technology

**NETWORK COMPUTING (R, T)**

(Supplementary—Prior to 2007 Admissions only)

Time : Three Hours

Maximum : 100 Marks

*Answer all the questions.*

**Part A**

1. What is the need for SPAN Tags ?
2. Explain the basic structure of Hint document.
3. Explain about the term "Event Handling".
4. How is "Java Script" in different from "Java" ?
5. What is Inheritance ? Explain it briefly.
6. Briefly explain about JDK 1.1 event model.
7. What is meant by Java Applets ? Mention its uses.
8. What do you mean by "Datagram" ?
9. Discuss the HTTP methods "PUT" and "POST".
10. Write a short note on "Pop Protocol".

(10 × 4 = 40 marks)

**Part B**

11. Write the HTML codes for creation of a basic table structure with 3 rows and 3 columns.

*Or*

12. Explain style sheets.
13. Discuss in detail about dynamic updating of pages with JAVA Script.

*Or*

14. Explain in detail Active X Controls and Active X Documents.
15. Discuss in detail about the different classes in Java Programming with an example.

*Or*

16. Write a short note on Multi-threaded programs and thread Synchronization.

**Turn over**

17. What is meant by Java thread ? Briefly explain the term "Thread Synchronization".

Or

18. Briefly explain the structure of RMI program and explain the working with a simple program.

19. Discuss in detail about the working of a CGI supported web server.

Or

20. Write a note on server side scripting.

[5 × 12 = 60 marks]

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Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, NOVEMBER 2010**

**Sixth Semester**

Branch : Computer Science and Engineering / IT

**COMPUTER NETWORKS (R,T)**

(Prior to 2007 admissions only)

[Supplementary]

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

**Part A**

1. Compare ISO-OSI Reference Model with TCP/IP Reference Model.
2. What is meant by geostationary satellite ?
3. What are the design issues of Data link layer ?
4. What is CSMA with collision detection ?
5. Describe datagrams.
6. What is flooding ? What are the problem associated with flooding ?
7. Explain the elements of transport protocols.
8. Explain the difference between TCP and UDP.
9. Discuss the operation of DNS.
10. Write notes on Bluetooth.

(10 × 4 = 40 marks)

**Part B**

11. Draw the block diagram of ISO-OSI reference model and explain each block in it.

(12 marks)

*Or*

12. Explain different transmission media in physical layer.

(12 marks)

13. Describe in detail the link layer protocols and their structures.

(12 marks)

*Or*

**Turn over**

14. Derive and draw the throughput characteristics of various ALOHA Schemes. (12 marks)
15. Explain the following : —
- (i) Virtual circuits.
  - (ii) Distance vector routing.

(6 + 6 = 12 marks)

Or

16. (i) What is congestion ? List the reason behind congestion. (6 marks)
- (ii) Explain leaky bucket algorithm. (6 marks)
17. Explain the various layers of TCP/IP model and list the protocols used in each. (12 marks)

Or

18. Write notes on ATM network. (12 marks)
19. What is meant by domain name ? How is a domain name translated to an equivalent IP address ? Explain.

(12 marks)

Or

20. Explain MIME protocol. (12 marks)

(5 × 12 = 60 marks)

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Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, NOVEMBER 2010**

**Sixth Semester**

Branch—Computer Science and Engineering

**ALGORITHM ANALYSIS AND DESIGN (R)**

(Supplementary—Prior to 2007 Admissions)

Time : Three Hours

Maximum : 100 Marks

*Answer all the questions.*

**Part A**

1. Explain briefly about the term “Pseudo code conventions”.
2. What is meant by Asymptotic Notation ? Explain.
3. With simple example, explain how to find maximum and minimum.
4. Define the term “Merge Sort”.
5. Explain briefly about “Optimal Storage on Tapes”.
6. Write about the technical term “Job sequencing with deadlines”.
7. What is meant by “Multi Stage Graph” ?
8. What is meant by “Oracles and Adversary arguments” ?
9. What do you mean by bounding functions ? Explain.
10. Define the terms “FIFO and LIFO”.

(10 × 4 = 40 marks)

**Part B**

11. What is the difference between time and space complexity ? Also describe notations used for describing the complexity.

*Or*

12. Discuss in detail about deterministic and non-deterministic algorithm.
13. Write a short note of the following :—

- (a) Binary Search.
- (b) Strassen's Matrix Multiplication.

*Or*

**Turn over**



14. Write a short note of the following :—

- (a) Divide and conquer Matrix Multiplication.
- (b) Quick sort.

15. Discuss in detail about Knapsack problem with an example.

Or

16. Describe Prim's algorithm. Find the time complexity for the algorithm.

17. Explain the all pairs shortest path problem. Solve it using dynamic programming strategy.

Or

18. Explain travelling salesman problem. Suggest a solution for problem using dynamic programming.

19. Describe the terms "N-Queens problem and sum of subsets".

Or

20. Describe how 15 Puzzle problem is solved.

(5 × 12 = 60 marks)

F 3575

Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, NOVEMBER 2010**

**Sixth Semester**

Branch : Computer Science and Engineering/Information Technology

**SOFTWARE ENGINEERING (RT)**

(Prior to 2007 admissions—Supplementary)

Time : Three Hours

Maximum : 100 Marks

*Answer all the questions.*

**Part A**

1. Explain the role of Management in Software development.
2. Explain the software engineering in detail.
3. Explain project scheduling in detail.
4. Explain the Rayleigh curve in detail.
5. What is the principle of problem partitioning ? Explain.
6. Explain the module level concepts.
7. Explain the concept of information hiding.
8. What is code reading ? Explain.
9. Explain the testing fundamentals in detail.
10. Define and explain error removal efficiency.

(10 × 4 = 40 marks)

**Part B**

11. Discuss in detail the software development process models.

*Or*

12. Explain in detail the phases in software development.
13. Explain the cost estimation and uncertainties in detail.

*Or*

14. Explain the following :—

- (i) Project monitoring plans.
- (ii) Quality assurance plans.

(6 marks)

(6 marks)

15. Explain in detail the module level concepts.

*Or*

16. Describe in detail the principles of system design.

17. Explain the following :—

- (i) Internal documentation.
- (ii) Symbolic execution.

(6 marks)

(6 marks)

*Or*

18. Explain the significance of coding in software engineering.
19. Explain in detail the frictional and shructured testing.

*Or*

20. Write technical notes on :

- (i) Comparison of verification and validation techniques.
- (ii) Programmer productivity.

(6 marks)

(6 marks)

[5 × 12 = 60 marks]

