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Spring 2012

Bachelor of Computer Application (BCA) – Semester 4

BC0047 – Java Programming – 4 Credits

(Book ID: B0831)

Assignment Set – 1 (40 Marks)

Answer All the Questions

1. How is Java different than any other OOP language like C++? Explain. [5 Marks]
2. Write a program in Java to find the highest of any five numbers. How do you compile and execute this Java program? [10 Marks]
3. Write a simple Java program to illustrate the use of for loop statement. [5 Marks]
4. What do you mean by an array? Explain with an example. [10 Marks]
5. Write a program to explain the Exception Handling mechanisms in Java using the keywords: try, catch and finally. [5 Marks]
6. Define (i) Inheritance (ii) Package and (iii) Interface. [5 Marks]

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BC0047 – Java Programming – 4 Credits

(Book ID: B0831)

Assignment Set – 2 (40 Marks)

Answer All the Questions

1. What are the uses of FileInputStream and FileOutputStream? Write short notes on each. [10 Marks]
2. Write an applet program to change the background colour of an applet window as soon as you click on a button? [10 Marks]
3. What are the uses of ODBC, JDBC and Driver Manager?. [10 Marks]
4. Write short notes on (i) RMI and (ii) CORBA [10 Marks]
5. Write an essay on history of web application. [10 Marks]

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Bachelor of Computer Application (BCA) – Semester 4

BC0048 – Computer Networks – 4 Credits

(Book ID: B0813)

Assignment Set – 1 (60 Marks)

Answer All the Questions. Each question carries equal marks.

1. List the Basic essential components of a computer network.
2. Differentiate LAN and WAN.
3. Explain the TCP/IP Reference Model with diagram.
4. What are the advantages and disadvantages of layered architecture in a network?
5. What are the problems due to which transmission lines suffers mainly?
6. Describe Circuit switching and message switching.

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Spring 2012

Bachelor of Computer Application (BCA) – Semester 4

BC0048 – Computer Networks – 4 Credits

(Book ID: B0813)

Assignment Set – 2 (60 Marks)

Answer All the Questions. Each question carries equal marks.

1. Briefly explain (i) Coaxial Cable and (ii) Optical fiber.
2. What are the functions of (i) Routers (iii) Bridges
- 3 . Define the terms Error Detection and Correction with respect to Data Transmission.

Also explain the following concepts with respect to Error Detection and Correction:

- Parity Bits
 - Cyclic Redundancy Check
4. Write notes on (i) Non-Persistent CSMA (ii) 1-Persistent CSMA (iii) P – Persistent CSMA
 5. Explain about Dynamic or Adaptive Routing algorithms with necessary example.
 6. Discuss the problems that occur while establishing a connection.

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Bachelor of Computer Application (BCA) – Semester 4

BC0049 – Software Engineering – 4 Credits

(Book ID: B0808)

Assignment Set – 1 (60 Marks)

Attempt all questions. Each question carries six marks 10 x 6 = 60

1. List the applications of software.
2. Discuss the Limitation of the linear sequential model in software engineering.
3. Explain briefly about the incremental development model.
4. What is Software reliability? Why reliability is more important than efficiency?
5. Discuss the four aspects to fault tolerance.
6. Discuss the reuse of software at a different levels:.
7. Draw the Data flow diagrams of Order processing and explain it in brief.
8. What is data dictionary? What are its advantages?
9. What is object aggregation? Explain.
10. Explain Data flow design.

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Spring 2012

Bachelor of Computer Application (BCA) – Semester 4

BC0049 – Software Engineering – 4 Credits

(Book ID: B0808)

Assignment Set – 2 (60 Marks)

Attempt all questions. Each question carries six marks 10 x 6 = 60

1. What is chain management? Explain.
2. Explain the different types of software maintenance.
3. Explain White box testing.
4. Explain black box testing.
5. Explain the principles of testing.
6. Explain bottom up testing.
7. What is the importance of 'Software Validation', in testing? Explain.
8. Write a note on software Testing Strategy.
9. Explain why top-down testing is not an effective strategy for testing object oriented system.
10. Explain why fault tolerance facilities are required if the system is failure.

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Spring 2012

Bachelor of Computer Application (BCA) – Semester 4

BC0050 – Oracle & Distributed Databases – 4 Credits

(Book ID: B0894)

Assignment Set – 1 (40 Marks)

Answer all Questions. Each question carries equal marks.

1. Write a PL/SQL code for find Sum of N numbers using WHILE Loop
2. Differentiate between PL/SQL functions and procedures.
3. Draw a diagram of oracle architecture and explain it briefly.
4. Draw the diagram of logical structure of oracle database and explain it in brief.

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Spring 2012

Bachelor of Computer Application (BCA) – Semester 4

BC0050 – Oracle & Distributed Databases – 4 Credits

(Book ID: B0894)

Assignment Set – 2 (40 Marks)

Answer all Questions. Each question carries equal marks.

1. Discuss the objectives of Query Processing.
2. Discuss the Features of the Heterogeneous Services
3. Explain the steps involved in recovery of distributed transactions.
4. What are the different Troubleshooting problems in Distributed Transaction?.

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Bachelor of Computer Application (BCA) – Semester 4

BC0051 – System Software – 4 Credits

(Book ID: B0900)

Assignment Set – 1 (60 Marks)

Answer All Questions. Each question carries equal marks.

1. Explain language processing activities with suitable diagrams
2. Draw the flowchart for Pass 1 assembler and explain it.
3. What is MASM? Explain its features
4. Explain the significance of Lexical analysis and Syntax analysis.
5. What are macros and macro processors? Explain in brief.
6. Differentiate linkers and loaders.

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Spring 2012

Bachelor of Computer Application (BCA) – Semester 4

BC0051 – System Software – 4 Credits

(Book ID: B0900)

Assignment Set – 2 (60 Marks)

Answer All Questions and Each Question Carries Equal Marks

1. What is binding? When will it takes place? Explain briefly.
2. Differentiate between static and dynamic storage allocations.
3. What is hash table? Why do we need it for symbol table implementation?
4. Explain any two types of errors that compiler detects briefly.
5. What is an Operating System? Explain its components
6. What is process? Differentiate between a process and program?

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