

**V.S.B. ENGINEERING COLLEGE, KARUR**

**Department of Information Technology**

**Academic Year: 2017-2018(EVEN Semester)**

**Name of Subject : CS6601 - Distributed System**

**Class/ Semester : III Year/ VI Semester B.Tech. Information Technology**

1. Deadlock and Starvation.
2. Role of proxy and skeleton in RMI.
3. Applications of Agreement problem.
4. Impact of the absence of global time.
5. Centralized and distributed computing.
6. Real time scheduling in a distributed environment.
7. Requirements of mutual exclusion algorithm.

**V.S.B. ENGINEERING COLLEGE, KARUR**

**Department of Information Technology**

**Academic Year: 2017-2018 (EVEN SEMESTER)**

**Name of the Course (Subject): IT6601 Mobile Computing**

**Class/Semester: III Year/ VI Semester B.Tech. Information Technology**

1. Security Issues in Wireless Computing
2. MVNO (Mobile Virtual Network Operator)
3. LBS (Location Based Services)
4. VoIP (Voice over IP)
5. Speech Recognition in Wireless
6. Smart SOS
7. Battery Issues in Mobile/wireless
8. Pocket PC Platform

**V.S.B. ENGINEERING COLLEGE, KARUR**  
**Department of Information Technology**  
**Academic Year: 2017-2018 (Even Semester)**

**Year/Class** : III/VI Semester B.Tech. Information Technology

**Name of Subject** : CS6660/Compiler Design

1. Explain the given below with examples
  - bootstrapping
  - Cross compiler
  - JIT compiler
2. With an example explain the use and coordination between “FLEX” and “FLEX ++” compiler writing tools?
3. Consider the following grammar which is not SLR, i.e. the SLR parsing table will have conflicts:

$$\begin{aligned} S &\rightarrow M a \\ S &\rightarrow b M c \\ S &\rightarrow d c \\ S &\rightarrow b d a \\ M &\rightarrow d \end{aligned}$$

Construct the SLR parse table and answer the following:

- a. How many conflicts are there in the resulting parsing table?
  - b. Show each pair of items that cause a conflict.
  - c. What are the viable prefixes for the conflicting states.
  - d. Explain in a clear language the reason behind each of the conflicts.
4. Discuss about the GNU Bison. List out the stages in using Bison and give the overall layout of the Bison.
  5. Compare DFA and DFA with example.

**V.S.B. ENGINEERING COLLEGE, KARUR**

**Department of Information Technology**

**Academic Year: 2017-2018 (EVEN Semester)**

Class: III/VI Semester B.Tech. Information Technology

Name of Subject: CS6659 - Artificial Intelligence

1. Problem Characteristics for 8-Puzzle and Chess.
2. Behavior of A\* Search algorithm.
3. Neural Networks architecture.
4. Perceptrons and Back propagation network.
5. Automated Advice taking.

**V.S.B. ENGINEERING COLLEGE, KARUR**

**Department of Information Technology**

**Academic Year: 2017-2018 (Even semester)**

**Class: III/VI Semester B.Tech. Information Technology**

**Name of the Course (Subject): IT6602 - Software Architectures**

**Questions:**

1. Creational patterns
2. Structural Patterns and Behavioral patterns
3. Software architecture erosion
4. Software architecture checker
5. Software architecture recovery
6. Enterprise and Partitioning architecture

**V.S.B. ENGINEERING COLLEGE, KARUR**  
**Department of Information Technology**  
**Academic Year 2017-18 (Even semester)**

**Name of the Course (Subject) : Total Quality Management**

**Class/Semester: III Year/VI Semester B.Tech.IT**

1. Evaluate the concept of Total Quality management keep in view various organizations.
2. Critically discuss the tools and techniques of Total Quality Management for services organization in detail.
3. Critically discuss the characteristics of an effective leader regarding the ensuring quality of daily usage products in the present economic circumstances.
4. Explain the concept of problem in continuous process improvement.
5. Discuss the different methods of problem solving in detail. Which one is better in your view? Explain with examples.
6. Describe any 15(fifteen) Models of TQM in detail. Which one of these models do you think is more suited to Indian companies?
7. How can Indian companies attain world class excellence? Which organizations are world class companies? Why?
8. Take the case of an organization you are familiar with. Discuss the general occupational health problems associated with the organization.
9. You're your own words define quality management and exhaustively describe why it is challenge to micro and small scale business.
10. Using an example of an existing business entity, describe in details how the use of quality management for its products and services has either made them. succeed or fail
11. What are the steps you will follow to implement Benchmarking in an organization.
12. Demonstrate how you understand the different approaches to quality management appropriate to commercial operations.
13. Construct the house of quality for the followings.  
1.Ball Point Pen 2.Computer mouse 3.Cell phone 4.Text book.
14. A producer of wooden furniture regularly receives a lot of complaints from customers about too late deliveries of chairs. By analyzing the problems within the organization, complete the process FMEA form.
15. Perform the design FMEA for Water Cooler.