MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)
Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad.

III B. TECH. II SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2017
SUBJECT: **WEB TECHNOLOGIES**
BRANCH: **Common to CSE & IT**

Time: **3 Hours**   Max Marks: 75

PART-A

ANSWER ANY 5 QUESTIONS   **5X15 =75 MARKS**

1a. What are the different types of lists in HTML? Explain how these lists are created in HTML with suitable example.

b. Explain the following terms related to HTML table Cell padding and spacing, Nested tables.

2a. Describe the primitive data types that Java script uses.

b. Write a script that reads an integer and determine and display whether it is an odd or even number.

3a. Give the advantages and disadvantages of XML Schemas.

b. Explain the various types of XML Schema data types used.

4. Write about the following

a. Bean Properties

b. Bean Events

c. Bean Methods

5a. What is a Cookie? Give the information that is saved for each cookie on the user's Machine

b. Create a servlet that displays the current date and time

6a. What are the limitations of servlets? How JSP overcomes these problems.

b. Develop a JSP to accept users first name and then welcome the user by name.

7a. Discuss about session tracking using JSP

b. What do you mean by directive elements? Explain it with suitable example

8a. Explain the JDBC architecture

b. Give SQL statements for create, delete, display and update a record.

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III B.Tech II Semester Supplementary Examinations, NOVEMBER-2017
SUBJECT: Software Testing Methodologies
Branch: CSE

Time: 3 hours   **Max. Marks: 75 Mark**

Answer Any 5 Questions   **5x15 Marks= 75 Marks**

1. a) Write about different structural bugs.   [7]

    b) Compare and contrast between testing versus Debugging.   [8]

2. a) Discuss how path testing is useful for rehosting old software.   [7]

    b) Why All-du-Paths (ADUP) is the strongest data-flow testing strategy?   [8]

3. a) Explain how the transaction flow- graph is used in functional testing.

    b) What are the transaction flows? Discuss their complications.   [7+8 M]

4. Explain about Nice Domain and Ugly Domains with suitable examples.

5. a) Write Boolean Algebra rules. Illustrate the rules with path expressions?   [7]

    b) Describe the importance and applications of path testing.   [8]

6. a) Minimize the following function using Karnauhg map method   [8]

    $F(A, B, C, D) = \sum(1, 2, 3, 8, 9, 10, 11, 14) + \sum d(7, 15)$

    b) Reduce the following logic expression using Karnauhg map method.   [7]

    $F(A, B, C, D) = \pi(1, 4, 6, 9, 10, 11, 14, 15)$

7. a) Write briefly the life cycle and states of a bug.   [7]

    b) Write about testability tips used in state Graph and transition testing. [8]

8. a) Write relative merits and demerits of different Graph Matrix representations.   [7]

    b) Describe the performance testing of a database application and HTTP connection

    for website access.   [8]

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III B.Tech II Semester Supplementary Examinations, NOVEMBER-2017
SUBJECT: NETWORK SECURITY

Branch: CSE

Time: 3 hours   **Max. Marks: 75 Mark**

Answer Any 5 Questions   **5x15 Marks= 75 Marks**

1. a) Explain in detail about security attacks, services, mechanisms?   [8M]

   b) Explain about how the Internet standards and RFCs.   [7M]

2. .a) Explain the various key distribution methods?   [7M]
   b) Explain in detail HMAC algorithm?   [8M]

3 .a) Perform encryption and decryption using RSA algorithm for p=3,q=11,d=7,m=5   [10M]
   b) Explain about Digital signature?   [5M]

4. a) What are MIME content types and MIME transfer encodings   [8M]
   b) What is the functionality of S/MIME?   [7M]

5. a) Draw and explain about IPsecurity Architecture?   [8M]
   b) Explain briefly about Encapsulating security payload format?   [7M]

6. a) Explain in detail about SSL architecture?   [8M]
   b) Explain about SSL Record protocol.   [7M]

7. a) Write short note on Trapdoors and Logic bombs?   [8M]
   b) Explain in detail about SNMPv2?   [7M]

8. a) Explain Distributed intrusion detection.   [7M]
   b) Discuss types of firewalls?   [8M]

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III B.Tech II Semester Supplementary Examinations, NOVEMBER-2017
SUBJECT: <u>COMPILER DESIGN</u>
Branch: CSE

Time: 3 hours   **Max. Marks: 75 Mark**
Answer Any 5 Questions   **5x15 Marks= 75 Marks**

1 a) Describe the output for the various phases of compiler with respect to following statement

      Position:=initial + rate*60   (10M)

  b) Write the differences between interpreter and compiler   (5M)

2) Construct predictive parsing table for the following grammar   (15M)

    E->TE'

    E'->+TE'/ε

    T->FT'

    T'->*FT'/ ε

    F->(E)/id

3) Construct LALR parsing table for the following grammar   (15M)

    S->Aa

    S->bAc

    S->dc

    S->bda

    A->d

Parse the input string bdc using table generated by you.

4) Write short notes on the following   (15M)

    a) S-Attributed definitions

    b) L-Attributed definitions

    c) Dependency graph

5 a) What are the various attributes of Symbol table   (7M)

  b) Discuss various symbol table organization techniques   (8M)

6)   Explain different principle sources of optimization techniques with suitable examples (15M)

7 a) Explain in detail the procedure that eliminate global common sub expression   (7M)

  b) Explain how copy propagation can be done using data flow equation   (8M)

8 a) Discuss various forms of object code   (8M)

  b) What are the issues in code generation   (7M)

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III B.Tech II Semester Supplementary Examinations, NOVEMBER-2017
SUBJECT: Objected Oriented Analysis and Design
Branch: CSE

Time: 3 hours   Max. Marks: 75 Mark

Answer Any 5 Questions   5x15 Marks= 75 Marks

1. a) Explain the various views considered in modeling system's architecture
    b) Enumerate modeling new building blocks   [8+7]

2. a) Explain various relationships in UML briefly
    b) Explain how you can distinguish simple aggregation with composite aggregation   [7+8]

3. Design a class diagram that depicts the various relationships in UML and explain the common properties uses of class.

4. Consider the use case " withdraw amount" related to ATM transaction modeling, Draw both the interaction diagrams for the use case. And explain briefly.

5. Discuss the contents, common properties and common uses case diagrams.

6. a) Define Event and Signal, Explain the four kinds of events modeled by UML.
    b) Enumerate the steps to model a family of signals.   [7+8]

7. Define component, contrast differences between components and classes and explain how the component and interface and related?

8. Design sequence diagram for library application, explain briefly.