Code No.: 10605/20605

MR11/MR12

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, DECEMBER-2019

Subject: **WEB TECHNOLOGIES**

Branch: **CSE**

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

Answer any 5 questions of the following **5x15M=75 M**

1. a) Explain how a basic table is created using HTML. [7M]
   b) Explain basic formatting tags. [8M]

2. a) How do you get JavaScript onto a web page? Explain with examples? [9M]
   b) Write a function in java script that validates if the content has the general syntax of an email? [6M]

3. a) Write XML database with details of student (Rollnum, Name(first_name,Last_name) parent name(First_name, Last_name) branch, year, address (Door_No, Street, City), Email, Ph.No. and write DTD to validate the above XML file. [7M]
   b) Explain How XML schema is better than DTD. [8M]

4. a) What are the advantages of JAVA beans? [7M]
   b) Explain about Bean info interface. [8M]

5. a) Write a servlet program to display form details when you click on submit button. [9M]
   b) Explain the core interface provided in javax.servlet.http package. [6M]

6. Discuss JSP Application design with MVC set up and JSP environment.

7. a) Develop a JSP to detect the web browser. [6M]
   b) Explain JSP scripting components with examples. [9M]

8. a) Explain about Javax.sql.* package. [6M]
   b) Explain different types of JDBC drivers with a neat sketch. [9M]

Code No.: 20519

MR12

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, DECEMBER-2019

Subject: **SOFTWARE TESTING METHODOLOGIES**

Branch: **CSE**

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

Answer ANY FIVE questions of the following **5x15M= 75M**

1. a) Explain model for testing. [7M]
   b) Compare and contrast between testing versus Debugging. [8M]
2. a) Discuss about control flow graphs. What are difference between control flow graphs and flow charts. [8M]
   b) Why All-du-Paths (ADUP) is the strongest data-flow testing strategy? [7M]
3. a) What are the transaction flows? Discuss their complications. [7M]
   b) Compare the transaction testing strategies with the data- flow testing. [8M]
4. a) How programmers and testers treat Ugly Domains? [9M]
   b) Explain the acronym Closed Off Outside, Open Off Inside (COOOOI) in domain testing. [6 M]
5. a) Explain the procedure used in testing loops in path testing. [9M]
   b) Explain the terms paths, nodes and links. [6M]
6. a) What is decision table and how does it is useful in testing. Explain it with help of an example. [9M]
   b) Explain about K V chats with suitable examples. Discuss their applications. [6M]
7. a) What are the types of bugs that can cause state graphs. [7M]
   b) What are principles of state testing? Explain its advantage and disadvantages. [8M]
8. a)Explain in detail performance testing. [8M]
   b) Discuss about the partitioning algorithm [7M]

Code No.: 20521 **MR12**

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, DECEMBER-2019

Subject: **COMPILER DESIGN**

Branch: **CSE**

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

Answer any 5 questions of the following **5x15M=75 M**

1. a) List the differences between compiler, interpreter and assembler [7M]
   b) Discuss about specification of tokens in detail [8M]
2. a) Explain basic steps to construct recursive decent parser [10+5M].
   b) Writ the psecudo code for the following grammar
   E→ $num\ T$
   T→$*\ num\ T/\varepsilon$
3. Consider the following grammar
   S → Aa
   S →bAc
   S →dc
   S →bda
   S →d
   Discuss the LALR parsing method for this grammar list out canonical collections and also construct a parsing table.
4. a) Explain about implicit and explicit type conversions [7M]
   b) Construct the syntax tree for the expression x*y-5+z [8M]
5. Explain various data structures used to implement the symbol table.
6. Explain different loop optimization techniques.
7. What is a flow graph? Explain how a given program is converted into a flow graph with an illustrative example.
8. Explain about Register Allocation and Assignment in detail