Code No.: 10521/20521 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 -2018

Subject: Complier Design

Branch: CSE			
Time: 3 hours	Max. Marks: 75		
Answer any FIVE Questions of the following	5x15M=75M		
1. Explain about pass and phases of translation with an example.	[15 M]		
2. a) Consider the following grammar	(7M)		
S -> 0A/1B/0/1 A -> 0S/1B/1			
B -> 0A/1S			
Construct leftmost derivation and parse tree for the following sentences			
i. 0101			
ii. 1100101 b) Compute FIRST and FOLLOW Sate for all non-terminals in the fo	llawing gramman		
b) Compute FIRST and FOLLOW Sets for all non terminals in the fo	(8M)		
S -> Aa/bAc/Bc/bBa	,		
A -> d			
B -> d			
3. a) Explain the procedure for constructing set of items in SLR parsers	[7]		
b) Compute LR(0) items for the following grammar S \rightarrow AB A \rightarrow a/ ϵ B·	>b/ ∈ [8]		
4. a) Construct the syntax directed translation scheme to convert a given ari	thmetic		
expression into three-address code.	[9M]		
b) Differentiate between S-Attributed grammar and L-Attributed gramma	ar. [6M]		
5. a) Explain in detail about various storage allocations strategies	(8M)		
b) Explain about implicit and explicit storage requests	(7M)		
6. a) Explain about following basic block optimization techniques (i) Struct	ure preserving		
transformation(ii) Use of algebraic identities	(8M)		
b) Explain the DAG representation of block	(7M)		
7. Explain about redundant sub expression elimination.	[15 M]		
8. a) Explain common issues in design of code generator?			
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b) Explain about usage count

Code No.: 10605/20605

MR11/ MR12

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Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

III B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER -2018

Subject: Web Technologies

Branch: CSE

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions of the following

5x15M = 75M

- a) 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 tables8M
- 2. a) Compare and contrast HTML and DHTML

8M

- b) Write a JavaScript to validate a form consisting of a username. Also navigate to another web page after validation 7M
- 3. a) Give the syntax of an XML document and explain how a basic XML document is created with an example
 - b) What is XSLT? Discuss in brief.

[7+8M]

4. a) Give the differences between Java Beans and Enterprise Java Beans.

[7+8M]

- b) What are application builder tools? Explain the capabilities of the application builder tools.
- 5. a) List and describe the classes that are provided in the javax.servlet package.

[7+8M]

- b) Write about the methods present in Servlet interface.
- 6. a) What are the limitations of servlets? How JSP overcomes these problems.

[7+8M]

- b) Develop a JSP to accept users first name and then welcome the user by name.
- 7. a) Discuss about dynamic content.
 - b) Discuss error handling mechanisms.

[7+8M]

- 8. a) Write a JDBC program to display the result of any query on a student table in a J Table component.
 - b) Discuss about prepared statements.

[7+8M]

Code No.: 10519/20519

MR11/ MR12

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III B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, DECEMBER -2018

Subject: SOFTWARE TESTING METHODOLOGIES

Branch: CSE

Time:	3 hours	Max. Marks: 75
Answe	r any FIVE Questions of the following	5x15M=75M
1.	Explain the goals for testing. Discuss in detail about various Dichotomies.	
2.	Discuss the following terms in detail:	
	a) Predicates and Predicate expressions	
	b) Predicate coverage	
	c) Achievable paths	
3.	a) Explain about data flow testing.	[8]
	b) Explain performance testing of database application.	[7]
4.	a) Explain briefly about the different domain errors encountered when a so	oftware
	tester assume the bugs.	[7]
	b) Distinguish between, One-dimensional domain testing and two dimensi	onal
	domain testing with example. Give the different bugs encountered in the	e above
	domain testing techniques.	[8]
5.	a) Describe briefly basis path testing with an example.	[8]
	b) Explain the stages and benefits of inspection process.	[7]
6.	a) Design a decision table for the sample ATM banking system assuming to	the
	necessary data.	[7]
	b) Briefly describe the KV charts for functions of a single variable and do	uble
	variables.	[8]
7.	a) What are the software implementation issues in state testing?	[8]
	b) Explain about good state and bad state graphs.	[7]
8.	a) Explain in detail about Usage of JMeter and Winrunner tools for Regres	ssion
	testing.	[8]
	b) Write about loops in matrix representation	[7]