

Code No: MC204B3/R20

MCA IV Semester Regular/Supplementary Examinations, June-2023

**SOFTWARE TESTING METHODOLOGIES**

Time: 3 Hours

Max. Marks: 70

*Answer any FIVE Questions One Question From Each Unit  
All Questions Carry Equal Marks*

**UNIT-I**

1. Explain the model of testing in detail. Also render software testing life cycle model. Justify whether complete testing is possible or not. [14M]

**OR**

2. a) Discuss about verification and validation with an example. [7M]  
b) Explain about the software testing terminology with an example. [7M]

**UNIT-II**

3. a) How do you represent Graph matrices for testing process? Devise the same with example. [7M]

- b) Explore on State Table based testing and Error guessing. [7M]

**OR**

4. Explore in detail about black box testing techniques with examples and neat sketches. [14M]

**UNIT-III**

5. a) List various regression testing techniques. [7M]

- b) Differentiate between dynamic testing and static testing. [7M]

**OR**

6. a) Define integration testing. Explain about path-based integration. [7M]

- b) Compare and contrast Integration testing with functional testing. [7M]

**UNIT-IV**

7. a) Discuss about Additional statement coverage prioritization. [7M]

- b) What are the quality aspects to be considered in web testing? Discuss briefly. [7M]

**OR**

8. Discuss the following. Illustrate with an example [14M]

i) Total statement coverage prioritization

ii) Total branch coverage prioritization

**UNIT-V**

9. a) What is inheritance testing? Explain in detail. [7M]

- b) Describe briefly about how the mobile systems are tested. [7M]

**OR**

10. a) List various types of testing tools with examples. [7M]

- b) What are the various costs incurred in Testing tools? Explain. [7M]

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Code No: MC204A2/R20

MCA IV Semester Regular/Supplementary Examinations, May-2023

**HUMAN RESOURCE MANAGEMENT**

Max. Marks: 70

Time: 3 Hours

*Answer any FIVE Questions One Question From Each Unit  
All Questions Carry Equal Marks*

- UNIT-I**
1. a) Define Human Resource Management and state the functions of HRM. [7M]  
b) Describe the emerging trends in Human Resource Management. [7M]  
(OR)
2. a) Elucidate the Evolution of Human Resource Management in India. [7M]  
b) What are the cross-cultural problems faced by the companies and how do you solve them? [7M]
- UNIT-II**
3. a) Discuss various methods of recruitment. [7M]  
b) What is human resource planning? State its importance for the organization. [7M]  
(OR)
4. a) What are the various training evaluation methods? Explain. [7M]  
b) What are the methods of human resource forecasting? Discuss. [7M]
- UNIT-III**
5. a) What are the factors affecting wage and salary administration? [7M]  
b) What are the laws related to the payment of wages? Explain. [7M]  
(OR)
6. a) Discuss the nature and scope labour welfare. [7M]  
b) Explain various non-statutory welfare measures. [7M]
- UNIT-IV**
7. a) Critically explain how do you evaluate the employee using 360-degree performance appraisal system and BARS? [7M]  
b) Discuss the need for performance evaluation in the organizations. [7M]  
(OR)
8. a) Describe the stages of career development. [7M]  
b) Narrate the goals of counselling. [7M]
- UNIT-V**
9. a) Define Industrial Relations and narrate its objectives. [7M]  
b) Explain the process of collective bargaining. [7M]  
(OR)
10. a) Discuss the grievance handling procedure in the organizations. [7M]  
b) How do you manage the stress in the work places? [7M]

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Time: 3 hours

Max. Marks: 70

2022

Answer ONE question from each unit

All Questions Carry Equal Marks (5 x 14 = 70)

All parts of the questions must be answered at one place only

**UNIT - I**

- 1 a Outline the importance of testing? List out the different testing phases in the evolution of software testing and explain. K2 CO1 (8M)  
 b Explain the myths of software testing. K2 CO1 (6M)
- OR
- 2 a Explain the software testing life cycle. K2 CO1 (7M)  
 b Explain the verification and validation activities. K2 CO1 (7M)

**UNIT - II**

- 3 a Differentiate black box testing and white box testing. K2 CO2 (7M)  
 b Explain decision table based testing in detail. K2 CO2 (7M)
- OR
- 4 a Discuss basic path testing in detail. K2 CO2 (7M)  
 b Explain the cause effect graphing testing in detail with an example. K3 CO2 (7M)

**UNIT - III**

- 5 a What is regression testing and explain the regression testing types. K1 CO5 (8M)  
 b Summarize Technical reviews. K2 CO5 (6M)
- OR
- 6 a Write a short note on structured walkthroughs. K1 CO5 (7M)  
 b Explain about system testing in detail. K2 CO5 (7M)

**UNIT - IV**

- 7 a Illustrate software quality metrics. K2 CO4 (7M)  
 b Explain the process and techniques of debugging. K2 CO4 (7M)
- OR
- 8 a Discuss SQA models. K2 CO4 (7M)  
 b Write short note on test suite prioritization. K1 CO4 (7M)

**UNIT - V**

- 9 a What are the challenges to be faced in testing web-based software? K1 CO5 (7M)  
 b Explain the importance of automation testing and discuss the advantages and utilization of the selenium tool. K2 CO5 (7M)
- OR
- 10 a Explain the importance of Win Runner testing tool. K2 CO5 (7M)  
 b Discuss the guidelines for automated testing. K2 CO5 (7M)
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# MCA-IV Sem - ACET

Code No.: MC204B3/R20

## MCA IV Semester Regular Examinations, July-2022 SOFTWARE TESTING METHODOLOGIES

Time: 3 Hours

Max. Marks: 70

Answer any FIVE Questions One Question From Each Unit  
All Questions Carry Equal Marks

		Marks
	<b>UNIT-I</b>	7M
1.	a) State the myths and facts about software testing. b) Explain in detail the relationship between software test life cycle and software development life cycle.	7M
	(OR)	7M
2.	a) Discuss in detail about evolution of software testing. b) Explore on software testing methodology in detail.	7M
	<b>UNIT-II</b>	7M
3.	a) What are all various types of errors detected by black box testing? Explain. b) Discuss on Basis path testing with a neat sketch.	7M
	(OR)	7M
4.	a) Explain about Cause-effect graph based testing and Decision table based testing. b) Write applications of data flow testing.	7M
	<b>UNIT-III</b>	7M
5.	a) Illustrate between unit testing and integration testing with an example. b) Differentiate between progressive and regressive testing process.	7M
	(OR)	7M
6.	a) What is static testing? Discuss in detail about parts of static testing. b) Explain about objectives and types of regression testing.	7M
	<b>UNIT-IV</b>	7M
7.	a) Write short notes on (i) Quality types (ii) Quality factors. b) Discuss on SQA models.	7M
	(OR)	7M
8.	a) How is debugging different from testing. Illustrate with an example. b) What is the need for minimizing test cases in a project? Illustrate with an example.	7M
	<b>UNIT-V</b>	7M
9.	a) List the quality aspects of a website and perform performance testing for it. b) What is the testing and maintenance problems introduced with object-oriented software? Discuss.	7M
	(OR)	7M
10.	a) List and explain various guidelines Automated testing. b) Write about the following: (i) Web based system testing (ii) Mobile system testing	6M 8M

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Code No: MC204A2/R20

MCA IV Semester Regular Examinations, July-2022

**HUMAN RESOURCE MANAGEMENT**

Time: 3 Hours

Max. Marks: 70

*Answer any FIVE Questions One Question From Each Unit  
All Questions Carry Equal Marks*

		Marks
<b>UNIT-I</b>		
1.	a) Define Human Resource Management and explain its scope.	7M
	b) Explain the cross-cultural problems of HRM in the Global scenario.	7M
(OR)		
2.	a) Discuss the challenges faced by HRM.	7M
	b) Elaborate the ethical aspects of HRM.	7M
<b>UNIT-II</b>		
3.	a) Evaluate the various methods of training.	7M
	b) Describe the various techniques of HRM forecasting techniques.	7M
(OR)		
4.	a) Describe the various sources of recruitment.	7M
	b) How do you evaluate the training effectiveness? Discuss.	7M
<b>UNIT-III</b>		
5.	a) What are the elements of wage and salary administration? Explain.	7M
	b) Evaluate the laws (Payment of Wages Act, Minimum Wages Act and Payment of Bonus Act) relating to wages in India.	7M
(OR)		
6.	a) Define labour welfare and discuss its scope and importance.	7M
	b) Explain various statutory welfare measures.	7M
<b>UNIT-IV</b>		
7.	a) Why do organizations need employee performance appraisals? Discuss.	7M
	b) Explain the modern methods of performance evaluation.	7M
(OR)		
8.	a) What is career development? Explain its importance.	7M
	b) Explain the different methods of counselling.	7M
<b>UNIT-V</b>		
9.	a) Discuss the scope and importance of industrial relations.	7M
	b) Describe the growth and development of Trade Unions in India.	7M
(OR)		
10.	a) What is grievance? Explain the procedures available to handle the grievances.	7M
	b) What are the pros and cons of employee stress? Discuss.	7M

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**ADITYA ENGINEERING COLLEGE (A)**

MCA – IV Semester End Examinations Regular &amp; Supplementary (AR20) – JUN 2023

**HUMAN RESOURCE MANAGEMENT**

Time: 3 hours

Max. Marks: 70

Answer ONE question from each unit

All Questions Carry Equal Marks

All parts of the questions must be answered at one place only

**UNIT – I**

- 1 a Define HRM and what are the functions of Human Resources Management? L1 CO1 [7M]  
 b Design an effective HR Policies in your view to increase organization Performance. L5 CO1 [7M]

OR

- 2 a Explain the role of HR Manager in in organization development. L3 CO1 [7M]  
 b What are the challenges faced by the HRM in present scenario? L3 CO1 [7M]

**UNIT – II**

- 3 a What are the objectives of HR Planning, Explain its importance in organization growth. L2 CO2 [7M]  
 b Define Recruitment. What are the various methods of Recruitment? L3 CO2 [7M]

OR

- 4 a How training needs will be identified in the organization? L4 CO2 [7M]  
 b Write a note on Job Description and Job Specification. L4 CO2 [7M]

**UNIT – III**

- 5 a What are the factors influencing on wage and salary administration? L4 CO3 [7M]  
 b Explain the legal frame work to be followed by the Employer in Payment of Wages. L4 CO3 [7M]

OR

- 6 a What are the incentives you suggest to motivate the employee? L5 CO3 [7M]  
 b Explain the statutory welfare measures should be implemented by the employer? L3 CO3 [7M]

**UNIT – IV**

- 7 a Define Performance Appraisal and What are the Modern Methods of Performance Appraisal? L2 CO4 [7M]  
 b Explain the latest trends in Performance Appraisal and how it will be useful to the employees and employers. L3 CO4 [7M]

OR

- 8 a What are the different types of methods of payment? L3 CO4 [7M]  
 b What mechanism HR should follow in payment of compensation at International Level? L3 CO4 [7M]

**UNIT – V**

- 9 a Define Industrial Relations. Explain the role of Trade unions in settling workers problems. L3 CO5 [7M]  
 b What are the stages of Employee Participation in Management? L2 CO5 [7M]

OR

- 10 a Discuss model grievance procedure observed by the organisations. L3 CO5 [7M]  
 b How organizations manage work place stress? L3 CO5 [7M]

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H.T.No: 21A91F0032

Course Code: 203MC4E17

**ADITYA ENGINEERING COLLEGE (A)**

MCA – IV Semester End Examinations Regular &amp; Supplementary (AR20) – JUN 2023

**SOFTWARE TESTING METHODOLOGIES****Time: 3 hours****Max. Marks: 70****Answer ONE question from each unit****All Questions Carry Equal Marks****All parts of the questions must be answered at one place only****UNIT – I**

- 1 a List and explain the goals of the software testing L2 CO1 [7M]  
 b Distinguish between the Effective Vs Exhaustive testing L3 CO1 [7M]

**OR**

- 2 a Demonstrate about the verification requirements L3 CO1 [7M]  
 b Illustrate the life cycle of testing. L2 CO1 [7M]

**UNIT – II**

- 3 a Summarize the boundary value analysis L2 CO2 [7M]  
 b Discuss about the state table based testing. L2 CO2 [7M]

**OR**

- 4 a Explain about the cyclomatic complexity of path testing L2 CO2 [7M]  
 b Demonstrate the loop testing L3 CO2 [7M]

**UNIT – III**

- 5 a Discuss about the role of members in structured walkthroughs L2 CO3 [7M]  
 b Illustrate the Inspection process in testing L2 CO3 [7M]

**OR**

- 6 a Explain in detail about the unit testing L2 CO3 [7M]  
 b Enumerate and explain the categories of system testing L2 CO3 [7M]

**UNIT – IV**

- 7 a Illustrate the process in defining the test suite minimization problem L3 CO4 [7M]  
 b Elaborate about the factors influencing the Software Quality L2 CO4 [7M]

**OR**

- 8 a Demonstrate about the test-suite prioritization L2 CO4 [7M]  
 b Discuss in detail about the SQA Models L2 CO4 [7M]

**UNIT – V**

- 9 a Discuss the need of the Automation L2 CO5 [7M]  
 b Infer the importance of the analysis and design of web based systems L3 CO5 [7M]

**OR**

- 10 a Demonstrate the challenges in testing for web based software L3 CO5 [7M]  
 b Explain the factors for the selecting the testing tools L2 CO5 [7M]

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