MODEL PAPERS

B.TECH IV YEAR – II SEM (R15)
(2019-20)

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

Recognized under 2(f) and 12 (B) of UGC ACT 1956
(Affiliated to JNTUH, Hyderabad, Approved by AICTE - Accredited by NBA & NAAC – 'A' Grade - ISO 9001:2015 Certified)
Maisammaguda, Dhulapally (Post Via. Hakimpet), Secunderabad – 500100, Telangana State, India

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY
B.Tech IV Year II Semester
SOFTWARE PROJECT MANAGEMENT
Model Paper-1

PART-A
Answer all the questions:
1. What is software economics
2. Draw a neat sketch of predominant cost estimation process.
3. What are life-cycle expectations?
4. Define round trip engineering?
5. What is the need for monitoring the cost?
6. Define Leadership.
7. How do you analysis the cost benefit in project evaluation?
8. What is Risk Evaluation?
9. What are iteration workflows?
10. What the engineering aspects?

PART-B
Answers the questions each question carry 10 marks:

1. What are the steps in identifying project roles? Name any five project roles and the skills needed for them.

(OR)

2. What are the sources of change? Why should change be made in a controlled way?

3. List the seven core metrics, their purpose and perspectives.

(OR)

4. What were the metrics collected in CCPDS-R? What is the purpose of each metric?

5. What are the five components of software cost models?

(OR)

6. What are the components of a good cost estimate, in practice?

7. Why software does didn't give as much returns on investment as other industries?

(OR)

8. What are the ways of achieving better economics in Software?

9. What are the primary objectives of the four phases of SW lifecycle?

(OR)

10. What are the essential activities in Inception and elaboration phases?

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY
B.Tech IV Year II Semester
SOFTWARE PROJECT MANAGEMENT
Model Paper-2

PART-A

Answer all the questions:
1. List out the objectives of activity planning.
2. What is RISK management?
3. List out five troubles the projects exhibit.
4. What are top principles of a modern process?
5. What are the formulas for Effort and Schedule Estimating?
6. What does prototype environment include?
7. What are the four coding standard parameters?
8. What are software metrics?
9. What is early risk resolution?
10. What are activities of transition phase?

PART-B

Answers the questions each question carry 10 marks:

1. What are the seven workflows in the lifecycle?

(OR)

2. What levels of activity take place in these workflows during each of the four phases (Inception, elaboration, construction and transition)?

3. What are the benefits of matching people to roles?

(OR)

4. What were the metrics collected in CCPDS-R? What is the purpose of each metric?

5. What are the ways of achieving better economics in Software?

(OR)

6. Why software does didn't give as much returns on investment as other industries?

7. What are the five components of software cost models?

(OR)

8. List the seven core metrics, their purpose and perspectives

9. Why software does didn't give as much returns on investment as other industries?

(OR)

10. List the problems you experience when you carried out a recent IT-related assignment. Try to put these problems into some order of magnitude. For each problem, consider whether there was some way in which the problem could have been reduced by better organization and planning by you.

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY
B.Tech IV Year II Semester
SOFTWARE PROJECT MANAGEMENT
Model Paper-3

PART-A

Answer all the questions:

1. What are the levels of CMM models
2. Define Risk management
3. List out the software process workflows?
4. Give a note of different joint management reviews.
5. What are the goals of pragmatic process improvement
6. What is Software Quality?
7. Define architecture framework.
8. What is WBS?
9. List out the five improvements in basic conventional model.
10. List out some problems with software projects?

PART-B

Answers the questions each question carry 10 marks:

1. What are the essential activities in Inception and elaboration phases?

(OR)

2. What is the peer inspections used in Quality improvements?

3. Discuss about the next-generation software economics.

(OR)

4. Distinguish conventional WBS and evolutionary WBS.

5. What is architectural frame work? Explain.

(OR)

6. What are the general quality improvements with a modern process?

7. Give an overview of the artifact sets that make the development of a complete software system manageable.

(OR)

8. What are CMM levels? Explain.

9. Explain risk management of CCPDS-R.

(OR)

10. Explain the incremental test process.

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY
B.Tech IV Year II Semester
SOFTWARE PROJECT MANAGEMENT
Model Paper-4

PART-A
Answer all the questions:
1. What are the top ten software management principles?
2. Define software project management.
3. What does prototype environment include?
4. List the seven core metrics.
5. What the features of the default organization?
6. What are the requirement artifacts?
7. What are the phases of a life-cycle model?
8. What are aspects of architecture from management perspective?
9. What are software management team activities?
10. Write relationship with the parameters of software economics?

PART-B
Answers the questions each question carry 10 marks:

1. Discuss the improvements that can be applied to the software cost model.

(OR)

2. Explain modern project profiles.

3. State the heuristics that describe objectively an architecture baseline.

(OR)

4. Describe the basic parameters that can be used for the abstraction of the software cost models

5. Define the implementation set and explain how they are evaluated, assessed and measured?

(OR)

6. What is the peer inspections used in Quality improvements?

7. If you have access to project planning software, investigate the extent to which it offers support for earned value analysis. If it does not do so directly, investigate ways in which it would help you to generate a baseline budget(BCWS) and track the earned value(BCWP)

(OR)

8. Describe the various concerns of different stakeholders.

9. What will be the impact of the late risk resolution? What are the rectification methods?

(OR)

10. List the problems you experience when you carried out a recent IT-related assignment. Try to put these problems into some order of magnitude. For each problem, consider whether there was some way in which the problem could have been reduced by better organization and planning by you.

9.a)   What are the activities of software architecture team?
  b)   Explain in detail about software change orders.   [5+5]

10.a)   What are the seven core metrics? Explain.
  b)   Give an example to distinguish small scale project and large scale project.   [7+3]

OR

11.a)   What are the basic characteristics of a good metric? Explain.
  b)   Give a common subsystem overview of CCPDS-R.   [4+6]

Code No: **RT4105C**

R13

Set No. 1

IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 2018
SOFTWARE PROJECT MANAGEMENT
(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours   **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B
*****

<u>PART–A</u> *(22 Marks)*

1. a) What is software project management?   [4]
    b) What is the impact of iterative development on evolving artifacts?   [3]
    c) Write estimation techniques.   [4]
    d) Define resource allocation schedules.   [3]
    e) What is progress monitoring?   [4]
    f) Defining a software quality.   [4]

<u>PART–B</u> *(3x16 = 48 Marks)*

2. a) Explain software project management activities.   [8]
    b) Describe project scope.   [8]

3. a) Illustrate the first two phases of the life-cycle process.   [8]
    b) Define Artifact? Write short notes on Engineering Artifacts.   [8]

4. a) Explain detail about the effort estimation models.   [8]
    b) Discuss in detail the bottom up estimation approach.   [8]

5. a) Explain briefly nature of risk.   [8]
    b) What is PERT? Describe PERT stages with suitable example.   [8]

6. a) Explain in detail about creating the framework.   [8]
    b) Define Scheduling resources with examples.   [8]

7. a) Explain with neat diagram, the place of software quality in project planning. [8]
    b) What is capability maturity model? Explain.   [8]

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Code No: **RT4105C**

R13

Set No. 2

IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 2018
SOFTWARE PROJECT MANAGEMENT
(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours
Max. Marks: 70

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
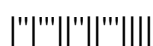*Answer any THREE questions from Part-B*
*****

PART–A *(22 Marks)*

1. a) Write a short note on when to plan. [4]
   b) What are the construction phase primary objectives? [3]
   c) Define critical path analysis. [3]
   d) Write short notes on PERT requires three estimates. [4]
   e) Explain cost monitoring. [4]
   f) List and explain quality factors. [4]

PART–B *(3x16 = 48 Marks)*

2. a) Discuss challenges in software project. [8]
   b) Explain in detail software projects and activities. [8]

3. a) What are primary objectives and essential activities of elaboration phase? [8]
   b) Write engineering artifacts available at the life-cycle architecture milestone. [8]

4. a) Explain network planning models. [8]
   b) Discuss in detail about the use case based estimation. [8]

5. a) Explain about the risk identification. [8]
   b) Discuss Monte Carlo simulation with neat diagram. [8]

6. a) With neat diagram explain project reporting structure. [8]
   b) Discuss about the identifying resource requirement. [8]

7. a) Explain the importance of software quality. [8]
   b) With neat diagram explain product and process metrics. [8]

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Code No: **RT4105C**

R13

Set No. 3

IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 2018
SOFTWARE PROJECT MANAGEMENT
(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours   Max. Marks: 70

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
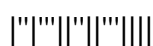*Answer any THREE questions from Part-B*
*****

PART–A *(22 Marks)*

1. a) What is a project?   [3]
    b) What are the construction phase primary objectives?   [4]
    c) What are the estimation techniques?   [4]
    d) Define Monte Carlo simulation.   [3]
    e) What is defect tracking?   [4]
    f) Defining a software quality.   [4]

PART–B *(3x16 = 48 Marks)*

2. a) Explain software project management activities.   [8]
    b) With neat diagram explain step-wise Objective and goals of project planning.   [8]

3. a) Explain Inception and Construction phases.   [8]
    b) Explain the life-cycle phases of a process in detail.   [8]

4. a) Explain different three stages of COCOMO II model.   [8]
    b) List and explain objectives of activity planning.   [8]

5. a) Explain risk assessment.   [8]
    b) Describe PERT stages with suitable example.   [8]

6. a) Discuss Cost monitoring with suitable example.   [8]
    b) List and explain seven categories of resources.   [8]

7. a) Defining software quality in three specifications explain in detail.   [8]
    b) What are the techniques for enhancing software quality?   [8]

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B. Tech II Semester Advance Supplementary Examinations, May 2019
Software Project Management
(CSE)

Roll No									

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

Note: This question paper contains two parts A and B
Part A is compulsory which carriers 25 marks and Answer all questions.
Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,
Choosing ONE Question from each SECTION and each Question carries 10 marks.
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PART-A (25 Marks)

1). a List the Management Artifacts.   **[2M]**
   b Write a short notes on Work Breakdown Structure.   **[3M]**
   c Give the applications of spiral model.   **[2M]**
   d Describe incremental delivery.   **[3M]**
   e Define risk identification.   **[2M]**
   f Define critical path analysis.   **[3M]**
   g Define resource allocation schedules.   **[2M]**
   h What is the use of checkpoints in monitoring?   **[3M]**
   i What is capability maturity model?   **[2M]**
   j Brief about enhancing software quality.   **[3M]**

PART-B (50 MARKS)
SECTION-I
2 a) What are the principles of Conventional Software Engineering?   **[10M]**
   b) Explain the concept of predominant Cost Estimation Process.
                                   OR
3 a) Elucidate the five improvements proposed to the basic Waterfall Process.   **[10M]**
   b) Illustrate the Boehm's Staffing Principles in improving Team Effectiveness.
SECTION-II
4 What are the primary objectives, essential activities and evolution criteria of   **[10M]**
   elaboration phase?
                                   OR
5 Explain in detail Inception and Construction Phases.   **[10M]**
SECTION-III
6 Give an overview of the Artifacts Sets and explain.   **[10M]**
                                   OR
7 Explain different stages of COCOMO II model.   **[10M]**
SECTION-IV
8 Write short notes on the following: **[10M]**
   i) Major Milestones ii) Minor Milestones
                                   OR
9 Discuss the Interaction Planning Process.   **[10M]**
SECTION-V
10 Explain in detail about Typical Automation and Tool Components that support the   **[10M]**
    Process Workflow.
                                   OR
11 Illustrate with a neat diagram Software Project Team Evolution over the life cycle.   **[10M]**
                                   ******

Code No: R15A0543

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B. Tech II Semester Regular Examinations, April/ May 2019
Software Project Management
(CSE)

Roll No									

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

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

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PART-A (25 Marks)

1)	a	Define Software Project management?	**[2M]**
	b	Write about Peer Inspections?	**[3M]**
	c	Define Conventional Software?	**[2M]**
	d	Write Differences between Inception phase and Elaboration phase?	**[3M]**
	e	What is an Artifact?	**[2M]**
	f	Explain about Engineering Artifact?	**[3M]**
	g	Define workflow of the process?	**[2M]**
	h	Define Inter Trans Workflows	**[3M]**
	i	What is Project control?	**[2M]**
	j	Explain about Quality Indicators?	**[3M]**

PART-B (50 MARKS)
SECTION-I

2	a)	Explain briefly Water Fall Model?	**[4M]**
	b)	Explain Pragmatic Software cost estimation?	**[3M]**
	c)	Explain Important Trends in Improving Software Economics?	**[3M]**

OR

3	Explain the Techniques for improving the software Economics?	**[10M]**

SECTION-II

4	a)	Explain briefly about phases of life cycle process?	**[4M]**
	b)	Explain Principles of Modern Software Management?	**[3M]**
	c)	Explain difference between the Principles of Conventional Software Engineering?	**[3M]**

OR

5	Explain the Life Cycle Phases in Engineering and Production?	**[10M]**

SECTION-III

6	a)	Explain about the use of Artifacts in software project management?	**[5M]**
	b)	Explain about Management Artifacts?	**[5M]**

	OR	
7	Explain Model based software Architectures with example?	**[10M]**

SECTION-IV

8	Explain about Checkpoints of the Process?	**[10M]**
	OR	
9	a) What is WBS?	**[3M]**
	b) What is Pragmatic planning?	**[4M]**
	c) Define cost and schedule Estimation?	**[3M]**

SECTION-V

10	Explain about Line-of-Business Organizations and Project Organizations?	**[10M]**
	OR	
11	a) Explain Process Automation Building Blocks?	**[4M]**
	b) Explain life cycle expectations?	**[3M]**
	c) Explain about Pragmatic Software Metrics Automation?	**[3M]**

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B. Tech II Semester Regular Examinations, April/ May 2019
Web Services
(CSE)

Roll No										

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

Note: This question paper contains two parts A and B
          Part A is compulsory which carriers 25 marks and Answer all questions.
          Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE
          Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1). a   rite the role of J2EE and XML in distributed computing   **[2M]**
   b   st out the challenges in Distributed Computing?   **[3M]**

   c   rite about SOAP Message Structure?   **[2M]**
   d   plain SOAP communication and messaging?   **[3M]**
   e   plain the functions of WSDL?   **[2M]**
   f   plain WSDL Tools?   **[3M]**
   g   Distinguish UDDI and WSDL?   **[2M]**
   h   What is the advantage of UDDI protocol?   **[3M]**
   i   List the advantages of XML.   **[2M]**
   j   Write the guidelines for signing XML Document   **[3M]**

PART-B (50 MARKS)
SECTION-I

2   Explain core web services standards and technologies for enabling web services?   **[10M]**

OR

3   Define Distributed Computing? Explain the importance of Distributed Computing?   **[10M]**

SECTION-II

4   Explain about anatomy of SOAP message?   **[10M]**

OR

5   Discuss about SOAP message exchange models   **[10M]**

SECTION-III

6   Explain anatomy of WSDL definition document?   **[10M]**

OR

7   Explain about the following WSDL document structural elements   **[10M]**
    a) Port types b) service?

SECTION-IV

8   Discuss on   **[3M]**
       a) Publishing information to a UDDI Registry   **[2M]**
       b) UDDI Registries   **[3M]**
       c)   UDDI data structures   **[2M]**
       d) searching information in a UDDI Registry

OR

9   Write short notes on the following   **[10M]**
       a) Publishing API in UDDI
       b) Limitations of UDDI

SECTION-V

10   Explain how to test interoperability   **[10M]**

                                         OR

11   Discuss on   **[3M]**
      a) XML digital signature?   **[3M]**
      b) XML security Frame work?   **[4M]**
      c) XML encryption

                                      ******

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B. Tech II Semester Advance Supplementary Examinations, May 2019
Web Services
(CSE)

Roll No									

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

Note: This question paper contains two parts A and B
         Part A is compulsory which carriers 25 marks and Answer all questions.
         Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing
         ONE Question from each SECTION and each Question carries 10 marks.
                                   ******

PART-A (25 Marks)

1). a hat are the reasons for choosing Web services over Web applications?   **[2M]**
   b scribe the role of xml and ebxml in Web services   **[3M]**
   c ve the SOAP1.1 specifications?   **[2M]**
   d rite the anatomy of a SOAP Message.   **[3M]**
   e hat are the limitations of WSDL?   **[2M]**
   f hat are the four pieces of information of a WSDL definition?   **[3M]**
   g   What are the two ways of interacting with a UDDI Registry Service?   **[2M]**
   h   Compare Public and Private UDDI Registries?   **[3M]**
   i   Define Digital certificate? What is the role of Certification Authority in it?   **[2M]**
   j   Discuss the challenges that affect interoperability in Web services.   **[3M]**

PART-B (50 MARKS)
SECTION-I
2   Define Distributed Computing and explain its evolution.   **[10M]**
                                   OR
3   Describe the Message-Oriented Middleware (MOM) architecture with a neat sketch.   **[10M]**

SECTION-II
4   Describe the SOAP message exchange model with intermediaries.   **[10M]**
                                   OR
5   a) What are Web Services? Why we need to use Web Services?   **[5M]**
     b) Explain the Industry Standards supporting Web Services.   **[5M]**

SECTION-III
6   Describe the Web service life cycle with a neat sketch.   **[10M]**
                                   OR
7   What are WSDL Binding Extensions? Discuss the WSDL binding support for   **[10M]**
     Operations.

SECTION-IV
8   Discuss the programming steps for searching information in a UDDI Registry.   **[10M]**
                                   OR
9   Describe the Primary UDDI data structures.   **[10M]**

SECTION-V
10   Explain the technologies behind securing Web Services.   **[10M]**
                                   OR
11   Explain about goals of Cryptography.   **[10M]**
                                   ******

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Subject: Web Services

MODEL PAPER-I

1.
   a. What are web services?
   b. What are the features of web services?
   c. What are the benefits of having XML based WEB services?
   d. What is the benefit of a Web services being loosely coupled?
   e. What is WSDL? What are the features of WSDL?
   f. If a client sends an XML request to a server, can we ensure that the communication remains confidential?
   g. How to handle Network security threats in Web services?
   h. Is XML-RPC is platform-dependent?
   i. Which language UDDI uses?
   j. What is the purpose of Service Provider in Web Service architecture?

2. (a)Discuss the anatomy of WSDL definition document?
   (b)What are the tools that can be used to implement WSDL?

                        (OR)
3. Discuss the following?
   i) Digital Signatures ii)XKMS Signature iii)NET iv)J2EETechnologyw.r.tWeb Services

4. What is the role of SOAP in developing web services? What are its limitations?
                        (OR)
5. (a)Explain the uses of UDDI registry?
   (b)What are the limitations of UDDI?

6. Describe briefly about XML, SOAP, and WSDL in a web service?
                        (OR)
7. What is the purpose of Service Requestor in Web Service architecture?

8. Which component of Web service describes interfaces to web services?
                        (OR)
9. What are the benefits and challenges of using web services?

10. What are the primary security issues with web services?
                        (OR)
11. How to handle Network security threats in Web services?

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Subject: Web Services

MODEL PAPER-II

1.
   a. What the components of a Web Service?
   b. How Does a Web Service Work?
   c. What is the purpose of Service Registry in Web Service architecture?
   d. What is Synchronicity?
   e. What is the core Roles in Web Service architecture?
   f. What are the benefits of Web Services?
   g. What do you mean by Interoperability of Web Services?
   h. What do you mean by loosely coupled architecture of Web services?
   i. Do Web services support Remote Procedure Calls (RPCs)?
   j. What are the behavioral characteristics of web services?

2. What is the purpose of layers in Web Service Protocol Stack?

(OR)

3. What is HTTP? What is XML-RPC? How request and response is sent in XML-RPC?

4. What is the role of SOAP in developing web services? What are its limitations?

(OR)

5. (a) Explain the uses of UDDI registry?

   (b)What are the limitations of UDDI?

6. What are the core layers in Web Service Protocol Stack?

(OR)

7. What is WSDL? What are the features of WSDL?

8 a) What do you mean by Web services manageability?

   b) Is XML-RPC is platform-dependent?

(OR)

9) What are the core layers in Web Service Protocol Stack?

10) If a client connects to a web service, how do we identify the user? Is the user authorized to use the service?

(OR)

11) If a client sends an XML request to a server, can we ensure that the communication remains Confidential?

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Subject: Web Services

MODEL PAPER-III

1.
   a. What are the core layers in Web Service Protocol Stack?
   b. What is the purpose of layers in Web Service Protocol Stack?
   c. Which language UDDI uses?
   d. Is XML-RPC is platform-dependent?
   e. What are the primary security issues with web services?
   f. What are the steps involved implementing web service with java?
   g. If a client connects to a web service, how do we identify the user? Is the user authorized to use the service?
   h. What is SOAP? What are the features of SOAP?
   i. What are the features of XML-RPC?
   j. What is WSDL? What are the features of WSDL?

2)   What is Distributed computing? Explain the importance of Distributed Computing?
                                    (OR)
3)   Explain the service oriented Architecture?

4)   Explain the basic SOAP message protocol?
                                    (OR)
5)   Explain the SOAP RPC Communication protocol

6)   Explain Web Service Lifecycle? Explain the sections of WSDL file?
                                    (OR)
7)   Explain the UDDI Registries? What are the uses of UDDI Registry?

8)   What do you mean by Web services manageability?
                                    (OR)
9)   What do you mean by Interoperability of Web Services?

10)   Discuss the anatomy of WSDL definition document?
                                    (OR)
11)   How to handle Network security threats in Web Services?

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Subject: Web Services

MODEL PAPER-IV

1.
   a. What are web services? What are the features of Web Services?
   b. What are the benefits of having XML based WEB services?
   c. Which language UDDI uses?
   d. Is XML-RPC is platform-dependent?
   e. What are the primary security issues with Web Services?
   f. What is the purpose of Service Registry in Web Service architecture?
   g. What is Synchronicity?
   h. What is the core Roles in Web Service architecture?
   i. What do you mean by Interoperability of Web Services?
   j. What do you mean by loosely coupled architecture of Web services?

2) a) Explain the importance of Distributed Computing?
   b) Differentiate it from the other existing technologies.
                              (OR)
3) Explain briefly the tools and technologies used in Web Service implementation.

4) Explain the steps involved in the implementation and development of Web Services
                              (OR)
5) a) Explain the SOAP message structure.
   b) Explain the SOAP communication model and SOAP security

6) What are the benefits and challenges of using Web Services?
                              (OR)
7) Explain the UDDI Registries? What are the uses of UDDI Registry?
8) Discuss the anatomy of WSDL definition document?
                              (OR)
9) What are the tools that can be used to implement WSDL?

10) What are the primary security issues with web services?
                              (OR)
11) What is the role of SOAP in developing Web Services? What are its limitations?

Code No: 118FD

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, April - 2018
WEB SERVICES
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

1.a)	Discuss the various building blocks of web services architecture.	[2]
b)	Explain the web services operational model.	[3]
c)	What is the importance of Faultcode element in SOAP fault?	[2]
d)	Define deserialization.	[3]
e)	Discuss the limitations of WSDL.	[2]
f)	What are the various functionalities provided by WSDL tools?	[3]
g)	Explain SOA in brief.	[2]
h)	Differentiate between public and private UDDI registries.	[3]
i)	What are digital signatures?	[2]
j)	Define non-repudiation and integrity.	[3]

PART - B

(50 Marks)

2.   Briefly explain the following:
a) Simple Object Access Protocol.
b) Web Service Description Language
c) Universal Description, Discovery and Integration.   [10]

OR

3.   Explain the role of J2EE and XML in distributed computing.   [10]

4.   Explain how SOAP encoding is done for the following with examples:
a) Structure types
b) Multiple references in Arrays
c) Enumeration.   [10]

OR

5.   Explain how SOAP web services are developed using java with an example.   [10]

6.   Explain how SOAP binding is done in WSDL with an example.   [10]

OR

7.   Briefly explain the various structural elements of a WSDL document with an example.
[10]

8.a) Discuss the various UDDI specifications.

  b) Explain the various UDDI data structures.   [5+5]

OR

9. Explain the following functions in Publishing API:

   a) save_xx

   b) delete_xx   [5+5]

10.a) Explain how is interoperability achieved in web services.

   b) Explain the steps involved in creating a java client for a web service.   [5+5]

OR

11. Write short notes on:

   a) Symmetric ciphers.

   b) Asymmetric ciphers.

   c) Digital certificates.

   d) XML encryption.   [10]

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Code No. 18FD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, May - 2017
WEB SERVICES
(Computer Science and Engineering)

Time: 3 hours   Max. Marks: 75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B
consists of 5 Units. Answer any one full question from each unit. Each question carries
10 marks and may have a, b, c as sub questions.

PART - A
(25 Marks)

1.a) What are the reasons for choosing Web services over Web applications?   [2]
  b) Give the advantages of distributed computing compared to a traditional standalone
      application?   [3]
  c) Give the SOAP 1.1 specifications?   [2]
  d) Write a SOAP request message to get book price information for the book
      "Introduction to Web services".   [3]
  e) What are the two important namespaces of <definitions> element   [2]
  f) What are the four pieces of information of a WSDL definition?   [3]
  g) What are the two ways of interacting with a UDDI Registry Service.   [2]
  h) Compare Public and Private UDDI Registries?   [3]
  i) Define Digital certificate? What is the role of Certification Authority in it? [2]
  j) Define the goals of cryptography?   [3]

PART - B
(50 Marks)

2.a) Discuss about Java RMI architectural model. Give its advantages and disadvantages.
  b) Describe the role of xml and ebxml in web services.   [5+5]

OR

3.a) Explain the basic operational model of Web Services.
  b) Discuss about CORBA architectural model? Give its advantages and disadvantages.
                                                                                     [5+5]

4.a) Describe the SOAP Envelope and Header elements of a SOAP message with pseudo
      code listings.
  b) Write notes on Java and Axis.   [5+5]

OR

5. Explain the two types of communication models supported by SOAP.   [10]

6.a) Describe the seven key structural elements of a WSDL definition document.
  b) What are the functionalities provided by WSDL tools? List the famous WSDL tools in
      the Java Web services space.   [5+5]

OR

7. Discuss in detail Web service life cycle and WSDL bindings.   [10]

8. Describe the Primary UDDI data structures. [10]

OR

9.a) Explain the two XML-based programming APIs used for communicating with the UDDI registry node.
   b) Write the programming steps for publishing. [5+5]

10.a) Discuss the basic concept of .NET framework.
    b) Explain the various available implementations of XML Encryption. [5+5]

OR

11. Describe XML encryption by example. [10]

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