

# MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUH, Approved by AICTE-Accredited by NBA & NAAC- A-Grade; ISO 9001:2008 Certified

## 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) J2EE Technology w.r.t web 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 are 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 supports 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 webservice 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 Life cycle? Explain the sections of WSDL file?  
(OR)

7) Explain the UDDI Registries? What are the uses of UDDI Registry?

8) 7. 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 are 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?

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Subject: Ad hoc and Sensor Networks

#### MODEL PAPER-I

SET-I

#### PART-1

Answer all questions

1. A. Explain any two characteristics of MANETS?
- B. Write any two challenges of MANETS?
- C. Define routing?
- D. What is position based routing?
- E. Define any two topology based routings?
- F. Define broadcast storm?
- G. Briefly Explain geocasting?
- H. Write about WSN?
- I. Define key management in ASN?
- J. Briefly explain about TOSSIM ?

#### PART-II

2. Explain in detail about Applications of MANETS?  
(OR)
3. Write about different ways to manage routing in MANETS?
4. What are the issues that need to be addressed to provide multicasting in MANETS?  
(OR)
5. Explain the concept of Flooding- Generated broadcast storm in an Adhoc network?
6. Explain about design issues of MANETS?  
(OR)
7. What are the ways to manage the high energy consumption in MANETS?
8. Describe the node level simulators in detail?  
(OR)
9. List the problems that affect secure Adhoc routing?
10. Explain N-Party Diffie-Hellman Key Agreement scheme for Adhoc sensor networks?  
(OR)
11. Write in detail about sensing and communication range of wireless sensors?

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Subject: Ad hoc and Sensor Networks

#### MODEL PAPER-II

**SET-II**

#### **PART-1**

Answer all questions

1. A. Define any two challenges of MANETS?
- B. Write any two applications of MANETS?
- C. Define Flooding?
- D. What do you mean by Geocasting?
- E. What is topology based routings?
- F. Define two applications of Wireless Sensor Networks?
- G. Define one way to manage routing in MANETS?
- H. Explain Intrusion detection System?
- I. Define network programming adhoc routing?
- J. Briefly explain about TinyOS?

#### **PART-II**

2. Explain in detail about Characteristics of MANETS?  
(OR)
3. Differentiate various routing approaches in MANETS?
4. Explain the position based routing protocols in detail?  
(OR)
5. What are the differences between topology based routing and position based routing?
6. Explain about design issues of MANETS?  
(OR)
7. Explain about sensor network programming in Adhoc networks?
8. Describe a typical intrusion detection system Architecture for Adhoc Networks?  
(OR)
9. Write about key management system in Adhoc Sensor Networks?
10. Write a note on Features of NS-2 with sensor network extension in detail?  
(OR)
11. Describe TOSSIM in detail?

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Subject: Ad hoc and Sensor Networks

#### MODEL PAPER-III

SET-III

#### PART-1

Answer all questions

1. A. Define signal stability?
- B. Write any three characteristics of MANETS?
- C. Define Flooding?
- D. Describe routing in ASN?
- E. What is topology based routings?
- F. Define broadcast storm?
- G. Define one way to manage routing in MANETS?
- H. Write about Wireless Sensor Networks?
- I. Define secure adhoc routing?
- J. Briefly explain about TinyOS?

#### PART-II

2. Explain in detail about Characteristics of MANETS?  
(OR)
3. Describe the working of signal stability based routing protocols for MANETS ?
4. Explain the topology based routing protocols in detail?  
(OR)
5. Explain the challenges that need to be addressed at Transport and MAC layers of MANETS?
6. Explain about design issues of MANETS?  
(OR)
7. Explain about sensor network programming in Adhoc networks?
8. Describe a typical intrusion detection system Architecture for Adhoc Networks?  
(OR)
9. Explain N-Party Diffie-Hellman Key Agreement scheme for Adhoc sensor networks?
10. Describe the dataflow style languages in detail?  
(OR)
11. Write about key management system in Adhoc Sensor Networks?

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Subject: Ad hoc and Sensor Networks

#### MODEL PAPER-IV

SET-IV

#### PART-1

Answer all questions

1. A. Write any two applications of MANETS
- B. Explain any two characteristics of MANETS?
- C. Define routing?
- D. Define Geocasting?
- E. Define two applications of Wireless Sensor Networks?
- F. Define broadcast storm?
- G. Write about WSN?
- H. Define secure adhoc routing?
- I. What is wormhole attack?
- J. Briefly explain Features of NS-2 with sensor network extension?

#### PART-II

2. Explain in detail about Challenges of MANETS?  
(OR)
3. Differentiate various routing approaches in MANETS?
4. What are the issues that need to be addressed to provide multicasting in MANETS?  
(OR)
5. Explain the challenges that need to be addressed at Network and MAC layers of MANETS?
6. Explain in detail about working of multipath based routing in s sensor network?  
(OR)
7. What are the ways to manage the high energy consumption in MANETS?
8. Describe the node level simulators in detail?  
(OR)
9. Write about key management system in Adhoc Sensor Networks?
10. Describe the imperative languages in detail?  
(OR)
11. Write about sensing and communication range of sensor network?

# MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### IV CSE II SEM

#### Management Science

Time: 3 Hours

Max. Marks: 75

#### Model Paper -1

##### Section-A

Answer all the questions

25 marks

1.
  - a).Define management.
  - b).Explain concepts of management.
  - c).Productivity vs. production.
  - d).Explain features of job production.
  - e).Define HRD. What are the various activities in it?
  - f).What is MBO? How it will be used in performance appraisal.
  - g).Write about critical path.
  - H).Explain rules for drawing networks.
  - i).Define corporate planning process.
  - j).Explain about micro environment.

##### Section-B

5x10=50

- 2).What are the various techniques of scientific management?  
Or
- 3).What is the importance of Management in the present business scenario?
- 4). Explain about various methods of production?  
Or
- 5). Define work study. Discuss its relevance in Modern context?
- 6). What are the differences between PM and HRM?  
Or
- 7). Explain the significance of manpower planning?
- 8). Differentiate between PERT and CPM?  
Or
- 9). Explain the steps involved in probability of completing the project with in given time?
- 10).Explain the significance of environmental analysis?  
Or
- 11). Explain the steps in Strategy formulation and implementation?

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### IV CSE II SEM

#### Management Science

Time: 3 Hours

Max. Marks: 75

#### Model Paper -2

#### Section-A

Answer all the questions

25 marks

1.

- a) Leader vs. manager.
- b) Explain different types of leaderships.
- c) .Explain benefits of method study.
- d) .Determine EOQ.
- e) What is induction? Explain its importance?
- f) .Differentiating training and development.
- g) .What is slack? Explain about it.
- h) . What is cost slope?
- i) .Goals vs. objectives.
- j) .Generic strategic alternatives.

#### Section-B

5x10=50

2. Explain various principles of management.

Or

3. Explain different need levels in mallow's motivation theory.

4. Explain objectives of purchasing function. How do you organize the purchasing department?

Or

5. Explain

- a)Functions of marketing.
- b)Importance of marketing mix.

6. What are the challenges faced by HR manager in the organization.

Or

7. What is job evaluation? Explain various methods of job evaluation.

8. Write about different time estimates.

Or

9. Write about different types of floats.

10. Explain about strategy variations.

Or

11. Explain different elements of corporate planning process

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### IV CSE II SEM

#### Management Science

Time: 3 Hours

Max. Marks: 75

#### Model Paper -3

#### Section-A

Answer all the questions

25 marks

1.
  - a) Management vs. administration.
  - b) Theory-x vs. theory-y
  - c) Selling vs. marketing.
  - d) Significance of ABC analysis.
  - e) Layoff vs. dismiss
  - f) Differentiate wages and salaries.
  - g) Activity vs event.
  - h) Explain about Gantt chart.
  - i) Explain role of SBUs.
  - j) Explain importance of programmes in strategic management.

#### Section-B

5x10=50

2. Explain various social responsibilities of an organization.

Or

3. Explain various principles of organizing.

4. Explain various elements of promotion mix.

Or

5. Discuss about various types of plant layouts with its merits and demerits.

6. Define merit rating. Explain methods of merit rating.

Or

7. Define training. Explain various on-the job and off-the job training methods.

8. Draw a network for following data.

Activity	Preceding activity
A	-----
B	-----
C	A
D	A
E	B

F	C,D
G	D
H	D,E
I	F,G,H

**Or**

9. Explain significance of CPM.

10. Explain SWOT analysis.

**Or**

11. What is significance of strategic alliances.

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### IV CSE II SEM

### Management Science

Time: 3 Hours

Max. Marks: 75

#### Model Paper -4

#### Section-A

Answer all the questions

25 marks

1.
  - a. Line organization vs. line and staff organization.
  - b. Staffing vs. Organizing.
  - c. Elements of promotion mix.
  - d. Write a short note about JIT (Just in Time).
  - e. Recruitment vs. selection.
  - f. Write a short note about succession strategy.
  - g. Vision vs. mission.
  - h. Goals vs. objectives.
  - i). Discuss about various factors in the macro environment.
  - j). Explain about diversification growth with examples.

#### Section-B

5x10=50

2. Explain about different types of organic structures with suitable examples.  
Or
3. What is departmentation? Explain about different criteria for departmentation.
4. Explain significance of
  - a) Control charts
  - b) Accepting sampling.Or
5. What are the various records in stores management?
6. What is compensation management?  
Explain about a) monetary benefits.  
b) Non-monetary benefits.

Or

7. Explain about role of job analysis.
- 8.

Activity	Normal		Crash	
	Days	cost	Days	Cost
1-2	3	500	2	1000
1-3	2	750	1	1500

1-4	6	1400	4	2600
2-4	5	1000	3	1800
2-5	7	1150	6	1450
3-4	2	800	2	800
4-5	4	1000	2	2400

Show the calculations of total cost at every stage of crashing.

Or

9. Explain various steps involved in finding probability that the project can be completed in the given scheduled time.

10. What are the different strategies to improve sales?

Or

11. Explain the significance of strategic management in the competitive environment.

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### IV CSE II SEM

#### Management Science

Time: 3 Hours

Max. Marks: 75

#### Model Paper -5

#### Section-A

Answer all the questions

25 marks

1.
  - a) Write about matrix organization.
  - b) Explain about team structure.
  - c) Explain about BPR.
  - d) What is importance of SQC?
  - e) Training vs. development.
  - f) Write about Job description.
  - g) Explain different rules for network drawing.
  - h) Write about different time estimates.
  - i) Bench marking.
  - j) Write about micro environment.

#### Section-B

5x10=50

2. What are the various modern approaches to organization structures?  
Or
3. What is the significance of organization structures in the business?
4. Explain different strategies to be followed in the different stages of PLC (product life cycle).  
Or
5. Explain differences between control charts for variables and control charts for attributes.
6. Why HRM has such a significant role in present scenario.  
Or
7. Explain different steps in selection process.
- 8.

Activity	Least time(days)	Greatest time(days)	Most likely time(days)
1-2	3	15	6
1-3	2	14	5
1-4	6	30	12
2-5	2	8	5
2-6	5	17	11
3-6	3	15	6
4-7	3	27	9

5-7	1	7	4
6-7	2	8	5

a) Draw net work.

b) What is the probability that the project will be completed in 27 days.

Or

9. Calculate total float, free float and independent float for the project whose activities are given below.

Activity	1-2	1-3	1-5	2-3	2-4	3-4	3-5	3-6	4-6	5-6
Duration(in weeks)	8	7	12	4	10	3	5	10	7	4

10. Write about balanced score card.

Or

11. Explain the concept of Value Chain analysis.