Code No.: **50539**

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)

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

IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL-2019

Subject: **Wireless Security**

Branch: **CSE**

Time: 3 hours   Max. Marks: 60

PART – A

Answer ALL questions of the following   5x2Mark=10 Marks

1. Define two services involved with the distribution of messages within a DS.

2. What is the difference between TKIP and CCMP?

3. What are the web security traffic approaches?

4. What is meant by S/MIME?

5. What is encryption?

PART-B

Answer any FIVE Questions of the following   5x10 Marks= 50Marks

1. a) List and explain Wireless security measures.

   b) Draw and explain IEEE 802.11 wireless LAN architecture.

2. a) Elaborate IEEE 802.11 wireless network architecture with a neat sketch.   [6M]

   b) Discuss IEEE 802.11i authentication phase.   [4M]

3. a) Explain SSL record protocol?

   b) Write about SSL Handshake protocol.

4. a) Write a short note on S/MIME functionality.

   b) Explain the operation of PGP.

5. a. What are the weaknesses of Diffie Hellman key Exchange? Explain in brief about ISA KMP key determination protocol.

   b. What are the features of IKE key determination?

6. Briefly explain about second and third generation wireless networks.

7. Compare WPA and IEEE 802.11i Security Standards.

8. Write short notes on any **TWO** of the following

   a) Threats on the web.

   b) Give the summary of cryptographic algorithms used by S/MIME.

   c) ESP Transportation mode .

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IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL-2019

Subject: <u>Big Data</u>

Branch: CSE

Time: 3 hours

Max. Marks: 60

PART – A

Answer ALL questions of the following   5x2Mark=10 Marks

1. Define terms of four dimensions, volume, velocity, variety and veracity.
2. What are the challenges are involved in the term extraction.
3. List stepwise approach to big data. analysis.
4. How modeling is used in Big Data pitfalls
5. How HDFS works?

PART-B

Answer any FIVE Questions of the following   5x10 Marks= 50Marks

1. a) State some common pitfalls in ontology development process.

   b) Discuss the de identification and re identification with an example.

2. a) Discuss various data clustering techniques which are suitable for big data clustering.

   b) How the statistical data mining helps to solve the big data problems.

3. a) How to modify the data indexing techniques to support big data.

   b) What are the options the analyst considers during the algorithm selection for a big data project?

4. a) Explain functionality of PCA in detail with examples

   b) What are different legalities and societal issues involved in analyzing different types of consent and unconsent data.

5. a) Explain core architecture of Hadoop with suitable block diagram. Discuss role of each component in detail.

   b) What are the advantages of Hadoop? Draw Hadoop ecosystem and explain its components.

6. What is Association Rule mining?.

7. Interpret the following with an example.

   a) Data range b) Denominator

8. **Write short notes on any two of the following**

   a) What are different data formats and exemplify the various ways to analyze data.

   b) What are different scales of measurement? Illustrate Box and Whiskers Plot with example

   c) Illustrate about challenges in integrating R and Hadoop.

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IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL-2019

Subject: **Mobile Databases**

Branch: CSE

Time: 3 hours   Max. Marks: 60

PART – A

Answer ALL questions of the following   5x2Mark=10 Marks

1. What is Mobile Database

2. What is cooperative transaction? Explain

3. What is Phantom Problem? Briefly explain.

4. Recall Correctness Criterion.

5. Define Exponential Index.

PART-B

Answer any FIVE Questions of the following   5x10 Marks= 50Marks

1. Explain in detail about the steps involved in location management with neat sketches.

2. a) Differentiate centralized DBMS and distribute DBS

   b) Write short notes on Transaction structure

3. Draw the architecture of a mobile database system and explain its components

4. What is concurrency control? Explain about concurrency control mechanism in mobile transaction model with examples.

5. Discuss the problems of managing transaction log of a mobile database system in a conventional way.

6. Explain the PCS Architecture in detail?

7. Explain the Advanced Transaction Models in detail?

8. Write short notes on any two of the following

   (a) Steps involved in Location Lookup

   (b) SAGA transaction model

   (c) HiCoMo

Code No.: **50562**

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IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL-2019

Subject: **Design Patterns**

Branch: **CSE**

Time: **3 hours**

Max. Marks: **60**

PART – A

Answer ALL questions of the following   5x2Mark=10 Marks

1. How to use a design pattern? Write the guidelines.
2. Write the any four essential elements in design pattern.
3. What are the consequences of the Abstract Factory Pattern?
4. List the two variations of the Adapter pattern?
5. Write down the drawbacks of Mediator Pattern?

PART-B

Answer any FIVE Questions of the following   5x10 Marks= 50Marks

1. a) Discuss How a Design Pattern solve the Design problems.

   b) Explain how to use a Design Pattern for solving design problem.

2. a) Discuss about "Supporting multiple window systems" in detail.

   b) Explain the Lexi's user interface and its design problems.

3. a) Discuss the Motivation, Structure, Collaborations and Implementation of "Abstract Factory Pattern".

   b) Write the sample code of Composite Pattern.

4. a) When can be a Flyweight pattern effectively be applicable? Explain.

   b) Explain the sample code of Flyweight pattern.

5. a) Explain the motivation and applicability of observer pattern.

   b) Discuss the Memento Pattern in detail.

6. Summarize the concept of the Object Design Patterns.

7. Create Embellishing the User Interface .How to utilize cases to User?

8. Write short notes on any **two** of the following

   a) Discuss about Abstract Factory patter

   b) Write about Proxy pattern

   c) Draw the structure and discuss the applicability of Observer pattern.

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IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL - 2019

Subject: <u>Entrepreneurship Skills</u>

Branch: **Common to CE, EEE, ME, ECE, CSE & MINING**

Time: **3 hours**   Max. Marks: 60

PART – A

Answer ALL questions of the following   **5x2Mark=10 Marks**

1. What is the difference between entrepreneur and entrepreneurship?
2. How does the entrepreneurial journey take place?
3. Give a note on IPR
4. Give a note on trade secrets.
5. What are the critical factors for new venture development?

PART-B

Answer any FIVE Questions of the following   **5x10 Marks= 50Marks**

1. Discuss the role of entrepreneurs in the development of Indian Economy.
2. Discuss about problems of women in entrepreneurship in India.
3. Elaborate on the methods to initiate new ventures.
4. Define trademarks and explain its process in detail with few examples.
5. Discuss on the 21st century trends in entrepreneurship.
6. What are the entrepreneurial motivations that encourage the entrepreneurs to set up the enterprises?
7. As a potential entrepreneur, how would you construct a business plan to satisfy your banker?
8. **Write short notes on any two of the following:**
   a) Patent b) Trade secrets related to entrepreneurship c) Corporate entrepreneurial mind-set.

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IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL-2019

Subject: **Disaster Management**

Branch: **Common to EEE, ME, ECE, CSE & MINING**

Time: 3 hours

Max. Marks: 60

PART – A

Answer ALL questions of the following

5x2Mark=10 Marks

1. What are socio economic hazards? Give an example.
2. What is an avalanche and mention its types.
3. Enlist the immediate relief measures in Disaster management
4. Define UNESCO and its function?
5. What is Indian Wildlife protection act

PART-B

Answer any FIVE Questions of the following

5x10 Marks= 50Marks

1. What is Disaster Management? Write an account on different approaches to disaster management
2. Explain causes and distribution of volcanoes and the hazardous effects of volcanic eruptions.
3. a) Explain in brief Post disaster stage rehabilitation

   b) Explain in brief about Pre disaster stage
4. Explain the monitoring management of
   a) World meteorological organization
   b) Remote Sensing.
5. a) Write short notes on Ecological planning for sustainability

   b) Write short notes on Role of Zillaparishad in Disaster Management.
6. Explain about the ecosystem approach and perception approach?
7. Distinguish between Global Sedimentation problems and Regional Sedimentation Problems?
8. Write short notes on any **TWO** of the following.
   a) Coastal Disaster   b) Ecological planning for sustainability
   c) Environmental policies in India

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IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL-2019

Subject: **Interpretation of Literature And Analytical Writing**

Branch: **Common to ME & CSE**

Time: 3 hours

Max. Marks: 60

PART – A

Answer ALL questions of the following

5x2Mark=10 Marks

1. What is the significance of the song, 'Beasts of England' in Animal Farm?
2. How does the meaning of a text change, when we reread it?
3. Write briefly about the origin of the Animalism theory and its importance.
4. Elaborate the three C's of effective writing.
5. Explain the term Deconstruction.

PART-B

Answer any FIVE Questions of the following

5x10 Marks= 50Marks

1. Interpret the poem, 'I am the song.'

   I am the song that sings the bird.
   I am the leaf that grows the land.
   I am the tide that moves the moon.
   I am the stream that halts the sand.
   I am the cloud that drives the storm.
   I am the earth that lights the sun.
   I am the fire that strikes the stone.
   I am the clay that shapes the hand.
   I am the word that speaks the man.   Charles Causley

2. How does *Animal Farm* critique the flaws of humanity?
3. Why do you think George Orwell choose an animal farm as a setting for his novel? Justify the title of the novel.
4. a) 'The only good human being is a dead one.' Explain in the context of Animal Farm.
   b) Analyze the principles of Animalism in Animal Farm?

5. Explain briefly the following approaches to literary criticism.
   a. Super ego   b. Mythological Criticism   c. Psychological Criticism
   d. Critique   e) Implied reader and actual reader
6. What effect did Snowball's expulsion have on the farm?
7. What qualities allow the pigs to gain power in the first place, and what qualities enable them to keep power? Are these different?
8. Write short notes on any **TWO** of the following
   a. Does Snowball represent a morally legitimate political alternative to the corrupt leadership of Napoleon?
   b. Write an analytical essay on "Impact of Technology on Human Relationships".
   c. Major conflicts in Animal Farm are expressions of the underlying tension between the exploited and exploiting classes- Explain