

Code No.: 50518

MR15-2015-16 Batch

**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: Software Engineering

Branch: ECE

Time: 3 hours

Max. Marks: 60

**PART – A**

Answer ALL questions of the following

5x2Mark=10 Marks

1. What are the merits of water fall model?
2. Define the terms product requirement and external requirement
3. What is Architectural design?
4. What is meant by SQA?
5. Explain about Reactive risk strategy.

**PART-B**

Answer any FIVE Questions of the following

5x10 Marks= 50Marks

1. Discuss in detail about various Metrics for software testing
2. a) Distinguish between functional requirements and non functional requirements.  
b) Explain the structure of a Software requirements document?
3. Write short notes on the following : a) Data Flow Model b) State Machine Model
4. What is black box testing? Is it necessary to perform this .Explain various test activities?
5. Discuss the Risk Analysis and Management template.
6. Explain about water fall model with neat diagram.
7. Summarize various aspects in requirement validation process.
8. Write short notes on any **TWO** of the following.
  - a)Software Quality Concepts
  - b) Risk identification
  - c) Business Risks.

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

Subject: Business Communication

Branch: ECE

Time: 3 hours

Max. Marks: 60

**PART – A**

Answer ALL questions of the following

5x2Mark=10 Marks

1. Write short notes on “Internal communication”.
2. Define the term “Kenesics”?
3. Write briefly on the reading skills, “skimming” and “scanning” and their uses.
4. What is Full Block format?
5. What is E-mail etiquette?

**PART-B**

Answer any FIVE Questions of the following

5x10 Marks= 50Marks

1. (a) Why do you think communication skills are important in today's world?  
(b) What is aural communication?
2. List out the differences between verbal and non-verbal communication.
3. Write a short note on Skimming, Scanning, Intensive and extensive reading skills.
4. You have received quotations for electrical goods from Bombay Electricals Ltd., but you find that their terms of 7% trade discount and 30 days credit are not competitive compared to quotations from others. Write a letter asking them to offer you better terms, also draft a suitable reply.
5. a) What are the characteristics of social correspondence?  
b) Discuss the good mannerisms to be followed in E-mail writing.
6. What do you understand by the term Technical Vocabulary? Explain its importance.
7. a) Discuss the role of non verbal cues in conversations.  
b) Why do you think that we should pay attention to non verbal communication?
8. Elucidate in detail the various strategies of Reading.

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**IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL-2019**Subject: Radar Systems

Branch: ECE

Time: 3 hours

Max. Marks: 60

**PART – A**

Answer ALL questions of the following

5x2Mark=10 Marks

1. Explain the factors that influence the bandwidth of Radar.
2. Differentiate the operation of pulse radar from simple CW radar.
3. Explain about range gated Doppler Filters?
4. Define mono pulse tracking radar.
5. Define noise figure

**PART-B**

Answer any FIVE Questions of the following

5x10 Marks= 50Marks

1. a) Explain the factors which govern the pulse repetition frequency.  
b) Explain the basic principle of Radar and discuss about the various parameters which improves the performance of Radar.
2. a) What are effects of receiver bandwidth in CW radar?  
b) Mention salient features of FMCW radar.
3. a) What is the difference between single canceller and double canceller in delay line cancellers?  
b) Explain the working principle of non-coherent MTI radar
4. a) Explain the function of low-angle tracking system?  
b) What is automatic detection and track?
5. a) Derive the expression for frequency response of the matched filter with Non-white noise.  
b) Explain various types of radar displays.
6. a) Calculate the minimum receivable signal in a radar receiver operating in standard ambient temperature, which has an IF bandwidth of 2 MHz and a noise figure of 12 dB.  
b) Write about minimum detectable signal
7. What is Doppler Effect? What are its radar applications?
8. Write short notes on any two of the following
  - a) Beam steering phased array antennas
  - b) Radar cross section of targets
  - c) Explain the factors which determine the range accuracy in radar

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**IV B.TECH II SEMESTER REGULAR END EXAMINATIONS, APRIL - 2019**Subject: Entrepreneurship SkillsBranch: **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 21<sup>st</sup> 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: Air Pollution & Control

Branch: common to ME, ECE & Mining

Time: 3 hours

Max. Marks: 60

**PART – A**

Answer ALL questions of the following

5x2Mark=10 Marks

1. Define ambient air quality.
2. Computation of Combustion.
3. How the wind rose diagram helps to predict air pollution.
4. List out the particulate control equipments
5. What is air quality management?

**PART-B**

Answer any FIVE Questions of the following

5x10 Marks= 50Marks

1. Give the classification of air pollutants with examples. Describe the impacts of major air pollutants on human health.
2. Write the impact of emission of  $\text{NO}_x$  and  $\text{SO}_x$  into the atmosphere
3. Explain different lapse rates and explain correlation to air quality.
4. Explain the working principle of Electrostatic precipitators. Mention its advantages and disadvantages
5. Write the comparison of standards of emission of air pollutants and its exposure.
6. Explain about Acid Rains
7. Explain the formation of carbon monoxide?
8. Write short notes on any two of the following
  - a) Ozone depletion
  - b) Wind rose diagram
  - c) Automobile pollution

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

Subject: Green Buildings

Branch: **Common to ECE & MINING**

Time: 3 hours

Max. Marks: 60

**PART – A**

Answer ALL questions of the following

5x2Mark=10 Marks

1. What is green globe certification
2. What are the benefits of green building in India
3. What does building commissioning mean?
4. Mention high performance building technologies?
5. What is green house effect ?

**PART-B**

Answer any FIVE Questions of the following

5x10 Marks= 50Marks

1. What are the sources of Green Materials?
2. a) How are Green Buildings benefited to society?  
b) Write short notes on the quality check of Green Buildings?
3. (a) Illustrate about the water cycle strategies and materials selection strategies.  
(b) Write down a brief note on Indoor Environmental Quality (IEQ).
4. (a) How you can use the green strategies in cost estimating tool? Explain.  
(b) Illustrate about the high performance building technologies.
5. a) Define carbon accounting and explain carbon accounting procedure?  
b) explain the benefits of green building by taking any case study?
6. a) Discuss in detail the costs, benefits, principles and strategies associated with building commissioning.  
b) Explain the role of Active systems and passive systems to reduce energy use in buildings?
7. (a) Explain about impacts of green building on building construction? 5M  
(b) Mention the primary information on green building rating and specify the few councils which are dealing with green buildings
8. a) write about the points considered to provide safe and healthy environment in green building construction?  
b) Detail the various steps involved in selection of site for green building construction.