MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)
Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, MAY-2018

Subject: **Microprocessor & Microcontrollers**

Branch: CSE

Time: 3 hours   Max. Marks: 60

PART – A

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

1. How effective and physical address calculated? Explain with an example.
2. Write the string instructions of 8086.
3. Explain the serial data transfer schemes operation
4. Mention the register banks and their addresses in 8051 microcontroller.
5. Write an Assembly Language Program for generating 0.5 ms delay using 8051 timer programming?

PART-B

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

1. a) Write short notes on following

   i) Fetch cycle ii)Execution cycle iii)machine cycle

   b) Explain the function of bus controller in 8086

2. a) Explain various types of logical instructions in 8086 with examples?

   b) Explain Data transfer, arithmetic and branch instructions.

3. a) Explain pin configuration of 8255 PPI?

   b) Explain why 8255 ports are divided into two groups? Discuss how these groups are

   controlled in different modes of operation?

4. a) Write an Assembly Language Program for finding largest number of an array using 8051

   instructions?

   b) Write steps to generate time delay using timers in mode1 using 8051?

5. a) Explain SCON register in 8051?

   b) Write an Assembly Language Program for generating a 1ms square wave on port pin
   p0.1.

6. a) Write function of Bus Interfacing Unit in 8086 microprocessor architecture?[

   b) Explain the various addressing modes of 8086 microprocessor with examples.

7. a)How is 8255 configured if its control register contains 9BH?

   b)Discuss the alternate functions of port3 of 8051?

8. **Answer any TWO Questions of the following**   **5x2Marks= 10Marks**

   a) Explain the internal hardware architecture of 8086 microprocessor with neat diagram.

   b) Write a sorting program in 8086 assembly language in a Descending order.

   c) Write short notes on interface two 16kb of EPROM and two 16kb of RAM with 8086

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, MAY-2018

Subject: Web Technologies

Branch: CSE

Time: 3 hours   Max. Marks: 60

PART – A

Answer ALL questions of the following   5x2Mark=10 Marks

1. What does the action attribute of <form> specify?
2. Why XML uses both streaming and tree-based parsing?
3. What are the differences between GET and POST method in HTTP protocol
4. Write short notes on JDBC
5. How JSP is different from java script?

PART-B

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

1. Explain differences between HTML and DHTML? What are the advantages of DHTML?

2. a) List the steps to develop a user defined bean with an example.

   b) Design an XML schema for hospital information management.

3. a) Explain the functionality of javax. servlet package

   b) Explain briefly the Generic and Http Servlets.

4. Write a JDBC program for establishing connection to database server by taking an arbitrary SQL query and show the result on web page.

5. Discuss in detail about Action elements in JSP with an example of display current time and color.

6. a) Write a brief note on JavaScript Objects?

   b) Write the advantages of XML schemas over DTDs.

7. a) Explain how cookies are used in Servlets with an example program.

   b) Write sample JDBC program for Select Operation?

8. **Write a short note on any TWO of the following**   **2x5 Marks= 10Marks**

   a) Write about memory usage considerations in JSP.
   b) Name the JSP Processing Steps?
   c) Write the elements of Java Beans.

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, MAY-2018

Subject: **Software Engineering**

Branch: **CSE**

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

PART – A

Answer ALL questions of the following   5x2Mark=10 Marks

1. Define the term 'software Engineering?
2. About Functional & Non functional Requirements?
3. Draw the diagram for data centered architecture?
4. What is black Box Testing
5. What is proactive risk strategy?

PART-B

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

1. Explain the Unified approach to software development. Discuss the merits and demerits of this approach
2. Prepare an SRS document as per IEEE standards..
3. Discuss in detail about Data Design and Architecture design?
4. Explain in detail about a Software testing strategy for conventional software architecture
5. Explain the following terms with respect to the architectural process.
   i) Persistence   ii) Distribution.
6. Write a short notes on the following
   a)Software engineering – A Layered Technology
   b) Inheritance specification
7. Explain following terms
   a) Defect removal efficiency
   b) CK Metrics Suite
8. **Answer any TWO Questions of the following**   2x5 Marks= 10Marks
   Write a short notes on the following:
   a) Requirements management
   b) Measuring Quality
   c) Technical Risks.

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, MAY-2018

Subject: Computer Networks

Branch: CSE

Time: 3 hours   Max. Marks: 60

PART – A

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

1. What are the three criteria necessary for an effective and efficient network?
2. What do you mean by framing? Why is it needed?
3. What are the four cases in ARP?
4. What are the services provided by transport layer protocol?
5. What is a digital signature?

PART-B

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

1. a). Discuss about the links operated on the physical media in detail.

   b) Explain in details packet switching

2. a) Write a short note on   HDLC Protocol

   b) Discuss the concept of redundancy in error detection. [5M]

3. What is logical addressing? Explain class full addressing in IPv4. [10M]

4. a) Discuss briefly how flow and error control are handled in TCP.

   b). List out the differences between Connection-Oriented and Connection-Less Services ? .

5. Describe in detail about FTP & HTTP with neat diagrams?   [10M]

6. a) Write a short note on TCP/IP Model

   b) Discuss the MAC layer functions of IEEE 802.11

7. a) What is multicasting? Explain briefly about IGMP

   b) Explain the duties of Transport layer

8. **Answer any TWO Questions of the following**   **2x5 Marks= 10Marks**

   a) Write a short note on SNMP

   b) Write short notes on User Datagram Protocol

   c) Discuss about path vector routing

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, JUNE-2018

Subject: **Business Communication**

Branch: **Common to CE & CSE**

Time: 3 hours   Max. Marks: 60

PART – A

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

1. How can listening improve the employer-employee relationship?

2. Give two examples each for formal and informal requests.

3. Define "Skimming & Scanning"?

4. What is a "Narrative Essay"?

5. Write a paragraph on characteristics and types of social correspondence.

PART-B

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

1. Write short notes on Feedback, Effective communication, Body language and Motivation as an object of communication.

2. What are the barriers of communication? Discuss language as a barrier to communication.

3. Specify the purpose of various kinds of Reading and explain

4. Write a job application for the post of an accountant in a reputed company in Mumbai.Give your Bio-Data.

5. Discuss the guidelines for writing Email communication and Email etiquette. Do provide a sample Email.

6. (a) Discuss the merits and limitations of oral communication.

   (b). Write short notes on any four non verbal communication skills.

7. (a). Write any five differences between e mail and fax.

   (b) Discuss the usefulness of "FAX" in transmitting the data/images.

8. **Write a short note on any TWO of the following**   2x5 Marks= 10Marks

   (a). What are the characteristics of social correspondence?

   (b) Describe in brief the formats of Business letters.

   (c). Write short notes on technical vocabulary.

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, JUNE-2018

Subject: **Green Buildings**

Branch: CSE

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

PART – A

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

1. What is importance of Green building?
2. What are the benefits of green buildings?
3. Detail the team responsibilities and controls of green building constructions
4. Write about high performance windows?
5. How we do carbon accounting for built environment?

PART-B

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

1. a) Give the brief introduction on green building environment
   b) Define the term "Green Globes". Discuss the various disposal methods and tools for building assessment.

2. a) Briefly discuss the design and construction relationships of green building process.
   b) Write the different strategies of site and landscapes in the construction of green Buildings.

3. a) Explain about strategies in selection of energy systems?
   b) What is IGBC and write about building commissioning?

4. a) Explain the strategies to be followed to lessen the economic impact of green building.
   b) Describe the strategies for reducing the ecological footprint of a new construction of a building and for the already existing building.

5. a) Inscribe the basic theory behind the carbon accounting green building Specifications.
   b) Briefly explain in relation to any case study on green building which is located in India.

6. (a) Why we need green buildings?
   (b) Write about BREEAM and CASBEE

7. a) Explain in detail about Building hydrologic cycle strategies?
   b) Compare between green building and high performance building technologies?

8. Write a short note on any TWO of the following   **2x5 Marks= 10Marks**
   a) Carbon free buildings?
   b) State the consequences of building commissioning strategies
   c) Life cycle assessment.

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, MAY-2018

Subject: <u>**Technical Communication & Presentation Skills**</u>

Branch: **Common to ECE & CSE**

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

PART – A

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

1. Discuss Dipthongs with at least two examples.
2. What is memo writing?
3. Point out the importance of pictorial presentation in report writing?
4. Explain in brief what are the 4Ps in an effective presentation?
5. Describe ERRQ strategy of reading?

PART-B

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

1. 'There is no one-to-one correspondence between the sounds and symbols in English'.
   Discuss the implications.

2. A policyholder writes to the Life Insurance Corporation to sanction him a maximum loan
   against his policy for Rs. 20 lakhs as he wants to buy a house. Draft the policyholder's letter.

3. The renowned industrialist Mukesh Ambani is visiting Hyderabad next week. He has
   agreed to pay two-hour visit to your college. The principal of your college has asked
   you to carry out a survey amongst students and then submit a report to him. He wants
   suggestions on:
   - How the two hour program can be organized
   - What activities can be carried out during these two hours
   - Who would assist him in this program
   - How these two hours can be productively spent
   - A present to give to the guest to say thank you for coming to visit your college.

4. Discuss important elements of effective presentation with suitable examples?

5. Read the article below and answer the following questions. Nothing can prepare you for
   becoming a company chief executive. You might think that for those who have risen steadily
   through a company's ranks, eventually reaching the top spot and becoming the boss might feel
   part of a natural progression. The CEO of General Electric says his 19 years' experience
   counted for very little once he himself became chief executive in 2001.

'I was brought up in the GE system and I went through a very public succession process – and really three days after I became CEO none of that mattered one bit,' he says.

Once a new CEO is in post, he or she may be surrounded by board members and subordinates, but the role itself can still be quite lonely, especially if a decision turns out to be the wrong one.

Chief executives are of course well-rewarded for their decision-making. Indeed bosses' financial packages have often proved controversial because they have risen so dramatically when compared to workers' salaries.

A chief executive will naturally need to know what their mission is and why their company exists, they will need to have a vision for where their firm should go, and know how progress towards that goal will be measured. But what makes a good leader? Many bosses say that the most important part of their job is dealing with a handful of really important issues, and taking tough decisions which may upset others.

But it is also clear that merely being tough is not in itself a recipe for success. 'Ruthlessness is an important part of business,' says Mr Grimstone, chairman of Standard Life, 'but my very strong advice is this should always be done with some consultation. I'm a great believer in invisible ruthlessness. Ruthlessness where you literally have blood on the carpet afterwards just leaves an unpleasant mess that you have to clean up.'

Some CEOs enjoy making big decisions, but the trick is not to get carried away by the power at your disposal. Being hard-headed about everything is not always the best answer. 'You have to develop the tough decision tools as well as the emollient tools if you're going to exist in the centre,' warns Harriet Green, chief executive of travel group Thomas Cook. Being tough and inflexible may win you a battle or two, but you may still end up losing the war, because success in business is about bringing people round to your way of thinking. This means that you have got to keep people onside. You have got to make them think it is a good idea before you proceed or else they will make sure it does not work.

While no decision is easy, if a CEO does not make the right choices then ultimately they may find things being taken out of their hands – as shareholders pressure the company management board to replace them.

a) (i) The CEO of General Electric states that...   5X1M= 5M

    1. his work experience was useful for the position.

    2. he had previously had the same role in another company.

    3. he lasted only three days as CEO.

    4. he was promoted to CEO from within the company.

(ii) According to the text, in what way could CEOs be isolated?

    1. There is no close contact with colleagues.

    2. CEOs cannot relate to those in lower positions.

    3. The decisions CEOs make can alienate them from others.

    4. They do not know the company and its employees well.

(iii) What does the text say about wages?

      1. The salaries of CEOs have been too high for some time.

      2. Other employees have not had such large wage increases as CEOs.

      3. All workers should have extra financial benefits and bonuses.

      4. CEOs are demanding more money due to the difficulty of the position.

(iv) According to Mr Grismtone, when making decisions CEOs should…

      1. be ruthless only when people cannot see it.

      2. combine being tough with discussing situations with others.

      3. try not to upset too many people.

      4. aim to be an invisible leader.

(v) According to the text, how can CEOs be successful in their job?

      1. By getting people to be supportive of their ideas.

      2.By taking advantage of all the power they have available.

      3. By concentrating on winning the small battles.

      4. By taking difficult decisions quickly

b) Write a concise summary of the above reading text.   **[5M]**

6. a) What are the four areas of pronunciation? Explain.

   b) You are unhappy about your company's current website. You have decided to write a memo to your managing Director about your ideas for setting up a new website. Write a memo to the Managing Director by using the following points:

      • the problems with the current website

      • the kind of information a new website should contain

      • who should be involved in setting it up

      • Any other relevant point

7. a) Discuss types of report writing and provide appropriate examples?

   b) List out possible problems that you faced while preparing, planning, and giving your oral presentations

8. **Answer any TWO Questions of the following**   **5x2 Marks= 10Marks**

   a) Explain methods sequencing in note making?

   b) Point out possible differences between technical and general vocabulary with appropriate examples?

   c) As a Secretary to the Manager, Finance, write a circular to all Heads of sections of the company calling for information to compile the quarterly accounts statement of the company.