

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, NOVEMBER-2019**Subject: **TECHNICAL COMMUNICATION & PRESENTATION SKILLS**Branch: **Common to EEE, ECE, CSE****Time: 3 hours****Max. Marks: 60****PART – A****I. Answer ALL questions of the following****5x2M=10 M**

1. Explain the term Formal Vocabulary with examples.
2. Write any four mechanics of technical writing?
3. What is the difference between Forward and Preface?
4. List out any four barriers in an effective presentation.
5. Write any four techniques which you use in “Note- Making”.

PART-B**Answer any FIVE questions of the following****5x10 M= 50M**

1. a) What are the tips do you use to identify the technical vocabulary?
b) What are the four areas of pronunciation? Explain.
2. a) Point out possible differences between technical and general vocabulary with appropriate examples.
b) Explain three levels of formality in using vocabulary.
3. a) Style of writing promotes interpersonal understanding in the business world. Explain
b) As the Stores Manager of the company, write a memo to the Supplies Manager requesting him to supply certain quantities of stationary consumables for the internal issue.
4. a) You are the Manager of a multinational company. Your company is going to organize staff development program for the employees. Prepare a circular to inform your staff by considering the following points:
 - how long will be the program (days, dates, and timings)
 - venue
 - the content (what will they learn in the program?)
 - any other details
 b) Figure out the possible differences between memo and circular writing.
5. a) Write a brief note on the significance of abstract writing.
b) Write a report to the Principal, on an industrial exhibition visited by you, highlighting the technical/industrial innovations of the products on display.
6. a) Write a report on a railway accident you have been sent to cover for a newspaper.
b) Discuss types of report writing and provide appropriate examples.
7. Read the article and answer the questions below:

The pressure to transform our institutions of learning continues. Virtually every enterprise and institution is grappling with the disruptions and opportunities caused by Web-enabled infrastructures and practices. New best practices, business models, innovations, and strategies are emerging, including new ways to acquire, assimilate, and share knowledge.

Using technologies that are already developed or that will be deployed over the next five years, best practices in knowledge sharing not only are diffusing rapidly but will be substantially reinvented in all settings: educational institutions, corporations, government organizations, associations, and nonprofits. But institutions of learning are in a unique position to benefit from an added opportunity: providing leadership in e-knowledge. E-knowledge finds expression in many shapes and forms in a profoundly networked world. It is not just a digitised collection of

knowledge. E-knowledge consists of knowledge objects and knowledge flows that combine content, context, and insights on application. E-knowledge also emerges from interactivity within and among communities of practice and from the troves of tacit knowledge and tradecraft that can be understood only through conversations with knowledgeable practitioners. E-knowing is the act of achieving understanding by interacting with individuals, communities of practice, and knowledge in a networked world. E-knowledge commerce consists of the transactions based on the sharing of knowledge. These transactions can involve the exchange of digital content/context and/or tacit knowledge through interactivity. Transactable e-knowledge can be exchanged for free or for fee. E-knowledge is enabling not only the emergence of new best practices but also the reinvention of the fundamental business models and strategies that exist for e-learning and knowledge management. E-knowledge is technologically realized by the fusion of e-learning and knowledge management and through the networking of knowledge workers.

Transactable e-knowledge and knowledge net-working will become the lifeblood of knowledge sharing. They will create a vibrant market for e-knowledge commerce and will stimulate dramatic changes in the knowledge ecologies of enterprises of all kinds. They will support a "Knowledge Economy" based on creating, distributing, and adding value to knowledge, the very activities in which colleges and universities are engaged. Yet few colleges and universities have taken sufficient account of the need to use their knowledge assets to achieve strategic differentiation.

In "*It Doesn't Matter*," a recent article in Harvard Business Review, Nicholas G. Carr endorsed corporate leaders' growing view that information technology offers only limited potential for strategic differentiation. Similar points are starting to be made about e-learning, and knowledge management has been under fire as ineffectual for some time. The truth is that e-learning and knowledge management can provide strategic differentiation only if they drive genuine innovation and business practice changes that yield greater value for learners. Carr's article provoked a host of contrary responses, including a letter from John Seely Brown and John Hagel III. Brown is well-known for his insights into the ways in which knowledge sharing can provide organizations with a solid basis for strategic differentiation.

(i) (a) E-knowledge is primarily based on practices used in business. [5X1M= 5M]

☐ Yes ☐ No ☐ Not given

(b) Educational institutions can be leaders in knowledge net-working.

☐ Yes ☐ No ☐ Not given

(c) E-knowledge has several benefits to it.

☐ Yes ☐ No ☐ Not given

(d) Communities of practice are one source of E-knowledge.

☐ Yes ☐ No ☐ Not given

(e) The key to the success of knowledge management and e-learning is offering strategic differentiation.

☐ Yes ☐ No ☐ Notgiven

(ii) Write a concise summary of the above reading text. [5M]

8. a) Do you think SQR3 strategy of reading has changed your reading habits? Justify your answer.

b) Explain methods sequencing in note making.

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019Subject: **COMPUTER NETWORKS**Branch: **COMMON TO ECE & CSE**Time: **3 hours**Max. Marks: **60****PART – A**Answer **ALL** questions of the following**5x2M=10 M**

1. Write five components of a data communication system.
2. What are Select and Poll functions in polling access method?
3. Write down the duties of a network layer.
4. What are the directions of data flow available networks?
5. What are the three persistence methods available in CSMA?

PART-BAnswer **ANY FIVE** questions of the following**5x10 M= 50M**

1. What is Multiplexing? with a neat sketch describe how Multiplexing and de Multiplexing are carried out in FDM?
2. a) What are the advantages of a multipoint connection over a point-to-point connection? [4M]
b) What is CRC? Explain CRC with an example. [6M]
3. Briefly discuss about noiseless protocols in data link layer.
4. a) Discuss about key requirements for wireless LANs.
b) Discuss about Ethernet IEEE 802.3 and IEEE 802.4.
5. Briefly describe the four steps involved in link state Routing.
6. Compare TCP, UDP & SCTP Protocols.
7. a) Discuss about congestion control in frame relay.
b) Discuss the various issues of transport layer in details.
8. Write short notes on the following protocols i) SNMP ii) SMTP.

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II B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019**Subject: MICROPROCESSOR & MICROCONTROLLERS**

Branch: CSE

Time: 3 hours**Max. Marks: 60****PART – A****Answer ALL questions of the following****5x2M=10 M**

1. Explain physical memory organization of 8086.
2. In addition to normal arithmetic and data move operations, what are the special functions for which the 8086 registers DX, CX are used?
3. Give the status register of 8251 and explain each bit.
4. Draw bit format of IE register in 8051.
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 M= 50M**

1. a) Explain the following pins of 8086. i)NMI ii)INTR iii)RESET iv) READY.
b) Explain the Register set of 8086 processor.
2. Explain the following instructions with examples.
i) DAA ii) LOOP iii) LEA iv) AAS v) AAM
3. (a) Explain shift instructions with examples in 8086.
(b) Explain the following instructions w. r. t. 8086 microprocessor.
(i) AAA (ii) DIV (iii) ROR (iv) LOOP (v) SCASB
4. a) How is 8255 configured if its control register contains 9BH?
b) Write the advantage and disadvantage of parallel communication over serial communication.
5. Explain the internal architecture of 8255 and explain its modes of operation in detail.
6. Draw the block diagram of 8051 and explain the function of each block in detail.
7. (a) Write an assembly language program to copy the value 55H in to RAM memory location 50H to 55H using .
i) direct addressing mode ii) indirect addressing mode with out loop iii) with loop
(b) With suitable examples explain the addressing modes of 8051 microcontroller.
8. a) Describe the different modes of operations of timers / counters in 8051 microcontroller with associated register.
b) Explain programming of external hardware interrupts in 8051.

Code No.: 50546

MR15

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019

Subject: WEB TECHNOLOGIES

Branch: CSE

Time: 3 hours

Max. Marks: 60

PART – A

Answer ALL questions of the following

5x2M=10 M

1. Write a HTML code for inserting an image.
2. Define XML. What are the advantages of it?
3. What is Servlet Context?
4. Differentiate ODBC & JDBC.
5. What are the JSP scripting elements?

PART-B

Answer any FIVE questions of the following

5x10 M= 50M

1. a) Describe the scoping rules for the Java script. Write a script that asks the user to enter two numbers, obtains the two numbers from the user and outputs text that displays the sum, product, difference and quotient of the two numbers.
b) Explain the classification of HTML tags with examples.
2. a) Write a brief note on JavaScript Objects.
b) Write a brief note on HTML Physical Tags.
3. a) Explain how data types are represented in XML Schema.
b) Write a short note on Bean Info Interface.
4. a) What is the necessity of setting the CLASSPATH during the execution of Servlet program?
Explain the procedure for setting the CLASSPATH.
b) Differentiate the features of CGI and Servlet.
5. Describe the stateful protocols in Servlets.
6. Explain about how JDBC is used to connect multiple databases.
7. a) Write sample JDBC program for Select Operation.
b) Write a brief note on JDBC drivers.
8. a) Explain error handling and debugging mechanism in JSP application development.
b) Write about memory usage considerations in JSP.

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019

Subject: **SOFTWARE ENGINEERING**

Branch: CSE

Time: 3 hours

Max. Marks: 60

PART – A

Answer ALL questions of the following

5x2M=10 M

1. List out Software Myths.
2. With the help of a neat diagram depict the requirement engineering process activities.
3. What is Architectural design?
4. Define ISO 9000 Quality Standards.
5. Explain about Reactive risk strategy.

PART-B

Answer any FIVE questions of the following

5x10 M= 50M

1. Elaborate on the changing nature of software in detail.
2. What are the metrics for analysis model?
3. Explain about requirements elicitation and analysis.
4. Write short notes on the following
 - a) Data Flow Model
 - b) State Machine Model
5. Discuss in detail design model.
6. Briefly explain requirements engineering process.
7. Explain briefly about a Strategic approach to software testing
8. Write short notes on any two of the following
 - a) Software Quality Concepts
 - b) Risk identification
 - c) Technical Risks

Code No.: 50H13

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019

Subject: MANAGEMENT SCIENCE

Branch: ECE, CSE

Time: 3 hours

Max. Marks: 60

PART – A

Answer ALL questions of the following

5x2M=10 M

1. What is Hygiene factors theory?
2. Discuss the advantages of virtual Organization.
3. Batch production.
4. What is Project Cost Analysis?
5. What is Strategic Deviation?

PART-B

Answer any FIVE questions of the following

5x10 M= 50M

1. Define the importance of management and write the various challenges faced by the manager.
2. Discuss in detail Functional Organization structure with diagram.
3. a) What is Matrix organization?
b) Write the differences between formal and informal organization.
4. Explain the functions of marketing and the marketing mix in detail.
5. a) Procedure involved in work study.
b) Procedure involved in statistical quality control charts.
6. What is HRM? Explain the differences between personnel management & industrial relation and HRM.
7. What is 'SWOT' analysis? How 'SWOT' analysis can be used to evaluate appropriate corporate strategy?
8. a) Write a short note on MIS.
b) Discuss End user computing.

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019Subject: **GREEN BUILDINGS**Branch: **CSE**

Time: 3 hours

Max. Marks: 60

PART – A

Answer ALL questions of the following

5x2M=10 M

1. What is life cycle assessment (LCA)?
2. What are the benefits of green building?
3. What does building commissioning mean?
4. What are the different economic issues influenced in high performance building technologies?
5. How we do carbon accounting for built environment?

PART-B

Answer ANY FIVE questions of the following

5x10 M= 50M

1. a) Describe differences between LEED and Green Globes regarding rating system structure.
b) What are the sources of green building materials?
2. a) Explain briefly about any one Methods for building assessment.
b) Explain briefly about sources of green materials.
3. a) Write the methodologies which are involved in design and construction relationships.
b) Enumerate the quality, healthy and safe environments of green building process.
4. a) Best Practices for indoor environmental quality.
b) What are the parameters involved in constructing a green building?
5. a) Explain in detail about Building hydrologic cycle strategies.
b) What is the strategy behind selecting green building materials?
6. 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.
7. a) In what way the carbon and green house gas emissions are playing a major environmental problem?
b) Distinguish between a conventional building and green building.
8. a) How do you measure carbon footprints for Green building materials?
b) How to apply carbon accounting to the built environment?

