H.T No: R18 Course Code: A30157



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023

	Date: 28.04.2023 AN (Civil Engineering) Time: 3 hours Max.	.Marks: 70
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory)	10x2=20M
1.	What is the necessity of ground improvement?	2 M
2.	List out the methods of ground improvement.	2 M
3.	List the deep compaction techniques of soil modification.	2 M
4.	What is Dynamic Compaction?	2 M
5.	What is dewatering? What are various methods of dewatering?	2 M
6.	What is a well point? In which types of soil, it is effective?	2 M
7.	Define hydraulic fracturing.	2 M
8.	Write a short note on grouting.	2 M
9.	Enumerate the uses of soil reinforcement.	2 M
10.	Write a note on importance of grain size analysis of soil in selection of grouting method.	2 M
	PART-B Answer the following. Each question carries TEN Marks	5v10=50M
	Answer the following. Each question carries TEN Marks.	5x10=50M
11.		
11.	Answer the following. Each question carries TEN Marks. A). Describe various methods of ground improvement suitable for cohesive soils. Discu	
	Answer the following. Each question carries TEN Marks. A). Describe various methods of ground improvement suitable for cohesive soils. Discubrief.	
11.	Answer the following. Each question carries TEN Marks. A). Describe various methods of ground improvement suitable for cohesive soils. Discubrief. OR B). Explain the factors influencing the choice of method of ground improvement project. A). Discuss blasting technique used in in-situ densification. Give an expression for calculating the radius of influence of a blasting technique.	ss in 10M
11.	Answer the following. Each question carries TEN Marks. A). Describe various methods of ground improvement suitable for cohesive soils. Discubrief. OR B). Explain the factors influencing the choice of method of ground improvement project. A). Discuss blasting technique used in in-situ densification. Give an expression for calculations.	10M ating 10M
11. 12.	Answer the following. Each question carries TEN Marks. A). Describe various methods of ground improvement suitable for cohesive soils. Discubrief. OR B). Explain the factors influencing the choice of method of ground improvement project. A). Discuss blasting technique used in in-situ densification. Give an expression for calculate radius of influence of a blasting technique. OR B). What is the difference between vibro compaction and vibro replacement? Explain	10M 10M ating 10M in in 10M

(P.T.O..)

14. A).	Explain shortcreating and guinting technology of ground modification.	10M
	OR	
14. B).	Discuss cement, lime and bitumen stabilization along with its merits and demerits.	10M
15. A).	Explain with clear illustrations, the principle involved in geotextile materials	10M
	reinforcement for improving the bearing capacity of soil.	10141
	OR	
15. B).		1034
	with a field sketch.	10M

H.T No: R18 Course Code: A30246



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023 Course Name: ELECTRICAL ENERGY CONSERVATION & AUDITING

Da	(Electrical & Electronics Engineering) ate: 28.04.2023 AN Time: 3 hours Max	.Marks: 70
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
. V	What is meant by commercial energy sources?	21
. V	What is meant by non commercial energy sources?	21
. V	What is meant by electric tariff?	21
. V	What are the fuels used in thermal power plant?	21
. V	What is energy audit? Why it is important?	21
	Now energy audit done?	21
L	ist the types of losses in an induction motor.	21
V	What is electricity billing?	21
V	What is energy saving potential?	21
). V	What is energy efficiency potential?	21
	PART-B	
Ai	nswer the following. Each question carries TEN Marks.	5x10=50M
1.A).	Explain in detail about long term energy scenario.	10
	OR	
l. B).	Explain energy conservation Act-2001 and it's futures.	10
2. A).	Discuss about thermal basic fuels, temperature and pressure.	10
	OR	
2. B).	Compare various methods of power factor improvement and location of capacitor.	10
8. A).	Classify the energy instruments in the context of energy management and explain they are used?	how 10
	OR	
8. B).	Discuss the working of power analyzer and its core in energy management.	101
l. A).	Discuss the methods of conservation of electric energy in domestic buildings. OR	101
. B).	Discuss the concept of energy efficient motors.	101
. A).	Discuss the features of energy efficient motors.	101
	OR	
	Discuss the concept of automatic power factor controllers.	

R18 H.T No: Course Code: A30366



1.

2.

3.

4.

5.

6.

7.

8.

9.

CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023 Course Name: TOOL DESIGN

(Mechanical Engineering) Date: 28.04.2023 AN Time: 3 hours Max.Marks: 70 (Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2 = 20MList any four types of tool Materials. 2 M What is the significance of various tool angles? 2 M Why chip formation in milling is more complicated than in single point turning? 2 M Define face milling operation. 2 M Why reaming speed is slower than the drilling? 2 M List any two differences between reaming and broaching operation. 2 M Why is die clearance increased for harder materials? 2 M What is meant by die clearance? 2 M What is the standard method of holding parts for surface grinding operation? 2 M What is difference between a drill jig and fixture? 10. 2 M PART-B Answer the following. Each question carries TEN Marks. 5x10=50M

What are the desirable characteristics of a cutting tool material? Explain how these are in 11.A). 10M the case of high speed steel tools.

OR

- 11. B). How are the cemented carbides classified by ISO? Explain general application of each 10M category.
- 12. A). Draw a neat sketch, showing the nomenclature of single point cutting tool and explain 10M various tool angles.

OR

- What are the main elements to be considered while designing plain milling cutter? 10M Explain anyone with a sketch
- 13. A). Consider the design of drill bit, explain the following elements: i) back taper, ii) web 10M thickness, iii) land width, iv) margin and v) Tool geometry.

OR

13. B). Explain the design and manufacturing of taps and dies.

10M

(P.T.O..)

14. A).	i) Sketch and explain the components of a simple die.	SIVI
1 1 2).	ii) Explain in brief center of pressure and strip layout in press tool design.	5M
	OR	
14. B).	i) Explain the importance of die allowance in bending die design.	5M
14. D).	ii) What methods are used to remove work piece from the punch or die cavity after a	5M
	forming operation.	
15. A).	Explain 3-2-1 principle of location	10M
	OR	
15. B).	Briefly explain with neat sketches:	10M
	i) Swinging leaf jig and ii) Box type jig.	



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS) B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023

	B.Tech VIII Semester Regular/Supplementary E. Course Name: WIRELESS COMMUNICATION NET	xaminations April/May-2023 FWORKS	
	Date: 28.04.2023 AN (Electronics & Communication Time: 3 hours	Engineering) Max.Mark	s: 70
	(Note: Assume suitable data if r PART-A Answer all TEN questions (Cor Each question carries TWO n	necessary) npulsory)	
1.	Define Mobile Assisted Handoff (MAHO).		2 M
2.	What is Trunking?		2 M
3.	List the three basic propagation mechanisms.		2 M
4.	Define partition loss in indoor propagation models.		2 M
5.	List the physical factors influencing small scale fading.		2 M
6.	Define Frequency Selective Fading.		2 M
7.	What is zero forcing algorithms?		2 M
8.	What is polarization diversity?		2 M
9.	List the advantages of wireless Local Area Networks.		2 M
10.	List the various standards in IEEE 802.11.		2 M
	PART-B		
	Answer the following. Each question carries TEN Marks.	5x10=	50M
11.A	A). Explain Frequency reuse in Cellular Radio systems.		10M
	OR		TOIVI
11. E		in cellular Systems.	10M
12. A	A). Describe the concept of Ground Reflection (Two-Ray) mo	odel.	10M
12. E	B). Explain Outdoor Propagation Models-Longley Rice and C	Okumura model.	10M
13. A	A). Consider a transmitter which radiates a sinusoidal carrier vehicle moving 60mph.Compute the received carrier fre (i) directly towards the transmitter, (ii) directly away fro direction which is perpendicular to the direction of arrival OR	quency if the mobile is moving om the transmitter and (iii) in a	10M
13. B		nts.	10M
14. A	A). Explain Equalizers in communications receivers and Linea	ar Equalizers.	10M
	OR		
14. B	B). Explain practical space diversity considerations.		10M
15. A	A). Describe the frame formats of IEEE 802.11 Medium Acce OR	ss Control.	10M
15. B			10M
	****		TVIVI



(UGC AUTONOMOUS)

B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023

Course Name: NATURAL LANGUAGE PROCESSING

(Computer Science & Engineering) Date: 28.04.2023 AN Time: 3 hours	Max.Marks: 70
(Note: Assume suitable data if necessary)	1/24/11/24/15/7/
Each question carries TWO marks.	10x2=20M
What is Morphology?	2 M
List the applications of NLP.	2 M
What is POS tagging in NLP?	2 M
What is a Treebank? Explain briefly.	2 M
Define Word Sense Disambiguation.	2 M
What is meant by Semantic Translation?	2 M
What are the applications of Semantic Role Labeling?	2 M
	2 M
How does a language model work?	2 M
What do you mean by reference resolution?	2 M
PART-B	
answer the following. Each question carries TEN Marks.	5x10=50M
. Illustrate the different steps involved in NLP.	10M
OR	
. Explain the various morphological models of NLP.	10M
). Discuss about syntax analysis using dependency graph with an example.	10M
OR	
. Elaborate Probabilistic Context Free Grammar with example.	10M
Explain the Simplified Lesk Algorithm with appropriate examples.	10M
일 전에 가장하면 함께 있는데 있다. 전쟁 전쟁 전쟁 전쟁 전쟁 전쟁 전쟁 전쟁 보고 보고 있다. 그 보고 있는데 보고 있는데 보고 있다면 보고 있다. 그리고 있는데 보고 있는데 보고 있다. 그리고 사람들이 되었다면 보고 있다면 보고 있다. 그리고 있는데 보고 있는데 보고 있다. 그리고 있는데 보고 있는데 보고 있는데 보고 있다.	1011
. Explain the various categories of Word Sense Systems.	10M
Differentiate Propbank and Framenet with suitable examples.	10M
OR	
. Explain the approaches to Meaning Representation Systems.	10M
. Discuss about cross lingual and multilingual models architectures.	10M
OR	
. Explain about the language models of NLP.	10M
	Note: 28.04.2023 AN (Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks. What is Morphology? List the applications of NLP. What is POS tagging in NLP? What is a Treebank? Explain briefly. Define Word Sense Disambiguation. What is meant by Semantic Translation? What are the applications of Semantic Role Labeling? Give an example of AMR using a directed graph. How does a language model work? What do you mean by reference resolution? PART-B Answer the following. Each question carries TEN Marks. Illustrate the different steps involved in NLP. OR Explain the various morphological models of NLP. OR Explain the Simplified Lesk Algorithm with appropriate example. OR Explain the Simplified Lesk Algorithm with appropriate examples. OR Explain the various categories of Word Sense Systems. Differentiate Propbank and Framenet with suitable examples. OR Explain the approaches to Meaning Representation Systems.



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023

C	Course Name: BLOCK CHAIN TECHNOLOGIES	April/May-2025
D	(Computer Science & Engineering) Pate: 28.04.2023 AN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1. I	List the advantages of Block chain.	2 M
2. V	What are the fundamental activities of a Smart contracts?	2 M
3. I	Identify the needs of Bit Coins.	2 M
4. I	Interpret the need of Consensus.	2 M
5. I	Discuss about the need of KYC.	2 M
6. F	Formulate the purpose of Food Security.	2 M
7. I	nfer a short note on Technical Challenges in Blockchain.	2 M
8. V	What is meant by Legal/Regulator Barriers?	2 M
9. E	Elaborate about the Hyperledger.	2 M
10. I	Distinguish between Hyperledger Identities and Polices.	2 M
Aı	PART-B nswer the following. Each question carries TEN Marks.	5x10=50M
		3X10-30M
11.A).	Summarize the following: i) Crypto Currency to Block Chain, ii) Merkel Tree	10M
	OR	
11. B).		5M
	ii) Develop a detailed differences between Public & Private Block Chai	n. 5M
12. A).	Examine the working with consensus in Bitcoin Networks. OR	10M
12. B).	Categorize the Hashcash PoW & Bitcoin PoW.	10M
13. A).	i a de la constant de	5M
	ii) Compile the purpose of Blockchain enabled trade.	5M

OR

13. B). i) Build the Supply Chain Financing.

ii) Determine the Trade Finance Networks.

5M

5M

14. A).	Analyse clearly about Market/Business Challenges Market/Business challenges.	10M
	OR	
14. B).	Summarize the Blockchain Applications in Financial Services.	10M
15. A).	i) Justify the need of Bitcoin Security.	5M
	ii) Explain the factors that affect Transaction Validation.	5M
	OR	
15. B).	i) Summarize about Reinventing of Blockchain.	5M
	ii) List the Ten rules to never break on the Blockchain.	5M



(UGC AUTONOMOUS)
B.Tech VIII Semester Regular Examinations April/May-2023

Course Name: INTERNET OF THINGS

Ds	nte: 28.04.2023 AN	(Common for CSE & IT) Time: 3 hours Max.Mar	·ks· 70
<u>D.</u>	110. 20.04.2025 ATT	(Note: Assume suitable data if necessary)	KS: /U
		PART-A	
		Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2	2=20M
. D	Define Internet of Things	5.	2 M
2. L	ist various application a	areas of IoT.	2 M
3. V	What is the use of sensor	deployment?	2 M
. V	What are the applications	s of sensor data aggregation?	2 M
. V	Why security is required	in IoT?	2 M
i. L	ist the various challenge	es in IoT.	2 M
. V	What is smart home?		2 M
. V	What are the specific app	olications of IoT?	2 M
	What are the sensor based		2 M
0. H	low python can be used	in IoT?	2 M
Aı	nswer the following. Ea	PART-B ach question carries TEN Marks. 5x10)=50M
	8	SATU	-301VI
1.A).	Explain characteristic	es and physical design of IoT.	10N
		OR	
1. B).	Describe Machine to	Machine concept & difference between IoT and M2M.	10M
2. A).	Describe network & (Communication aspects and wireless media access.	10M
		OR	1010
2. B).	Explain the concept o	f sensor deployment & node discovery.	10M
3. A).	Discuss IoT design ch	nallenges	10M
,		OR	TUIV
3. B).	Describe security chal		10M
4. A).	Determine the IoT le lighting and intrusion	evels for designing home automation IoT systems including smart detection.	
		OR	
4. B).	Determine the IoT lev	rels for designing structural health monitoring system.	10M
5. A).	Discuss different IoT	tools.	10M
		OR	
5. B).	Describe how IoT con	cepts are implemented with python.	10M



(UGC AUTONOMOUS)
Regular/Supplementary Examinations April/May-2023

Co	B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023 urse Name: PYTHON PROGRAMMING	
	(Common for CE, EEE, ME, ECE & IT)	
Dat	te: 01.05.2023 AN Time: 3 hours Max.Mark	s: 70
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2=	=20M
	hat is in operator in Python? give an example.	2 M
	evelop a line of code that prompts the user for his or her name and saves the user's input in variable called name.	2 M
3. G	eneralize the uses of Python Module.	2 M
4. W	rite a while loop that computes the factorial of a given integer N.	2 M
5. Di	ifferentiate Tuple and List.	2 M
6. Po	oint out the difference between recursive and iterative technique.	2 M
7. Li	st out the basic concepts of OOPS.	2 M
8. Co	ompare overloading and overriding.	2 M
9. De	emonstrate the major steps used to create widgets.	2 M
10. De	efine Pixel and Why RGB System used.	2 M
An	PART-B swer the following. Each question carries TEN Marks. 5x10=	=50M
11 4)	i) Explain the calient features of mythen programming language	6M
11.A).	i) Explain the salient features of python programming language.ii) Develop a Python Code to check the given number is even or odd.	6M 4M
	OR	1111
11. B).	Explain for, while, break and continue statements in python with examples for each.	10M
11. b).	Explain for, while, break and continue statements in python with examples for each.	TOIVI
12. A).	Explain in briefly, what are the different methods of file operations supports in python shutil module.	10M
	OR	
12. B).	Demonstrate about Handling Exceptions in detail with examples.	10M
13. A).	Explain Indexing and Slicing operation for string manipulation with example in python. OR	10M
13. B).	What is dictionary in Python? Review built-in dictionary methods with example.	10M
14. A).	Explain how to implement Polymorphism in Python with suitable example. OR	10M
14. B).	i) Analyze Costs and Benefits of Object-Oriented Programming.	5M
-/-	ii) What are the benefits of having class B extend or inherit from class A?	5M
	(P.T.O.)	

i) Describe what usually happens in theinit method of a main window class. ii) Summarize the types of Window Components.	4M 6M
OR	
i) Describe the Methods and Image Manipulation operations used for image processing.ii) Develop a Python Program to Convert an Image to Gray Scale.	7M 3M
	i) Summarize the types of Window Components. OR i) Describe the Methods and Image Manipulation operations used for image processing.



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023
Name: BUSINESS ETHICS & CORPORATE GOVERNANCE

Course Name: BUSINESS ETHICS & CORPORATE GOVERNANCE			
	(Common for CE, ME, ECE, CSE & IT) Date: 01.05.2023 AN Time: 3 hours	Max.Marks: 70	
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M	
1.	What is business ethics?	2 M	
2.	What are the major ethical issues that business faces today?	2 M	
3.	What is corporate governance?	2 M	
4.	List the five myths about business ethics.	2 M	
5.	What is cyber terrorism?	2 M	
6.	Brief about Information warfare.	2 M	
7.	Define the Corporate social responsibility.	2 M	
8.	Discuss the following: i) Institutional investors and ii) Directors.	2 M	
9.	What is Internal Control and assurance? Interpret.	2 M	
10.	What is Information communication? Explain.	2 M	
	PART-B Answer the following. Each question carries TEN Marks.	5x10=50M	
11.A). Discuss in detail the Carol Gilligan's theory and stages of moral development. OR	10M	
11. I	3). Discuss various principles of ethics and is implications in the modern business w	vorld. 10M	
12. /	a). What are the marketing ethics? Why should a firm follow these? Explain. OR	10M	
12. I). Analyze the major issues involved in false advertising?	10M	
13. /	Define Cyber Crime with ethically related challenges in detail. OR	10M	
13. I		10M	
14. A	Define Corporate governance. Explain its importance in business. OR	10M	
14. I). "Directors are the key persons in corporate governance structure". Comment.	10M	
15. A	.). Examine the OECD principles of corporate governance. OR	10M	

10M

15. B). What are the aspects of corporate governance reporting and disclosures?



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS) B.Tech VIII Semester Regular Examinations April/May-2023

Cou	irse Name: GREEN BUILDINGS	
Dat	(Common for EEE, ME, ECE & CSE) e: 01.05.2023 AN Time: 3 hours	Max.Marks: 70
Dat	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1. De	efine Green Building.	2 M
2. Int	fer the term Bio-mimicry.	2 M
3. W	hat is meant by sustainable architecture?	2 M
4. Li	st different rating systems for green building.	2 M
5. W	hat is meant by passive design?	2 M
6. Na	ame the material which controls the temperature.	2 M
7. Di	fferentiate house and eco house.	2 M
8. Na	ame some sustainable materials.	2 M
9. De	efine Sustainability.	2 M
10. Li	st the objectives of green building design.	2 M
Ans	PART-B swer the following. Each question carries TEN Marks.	5x10=50M
11.A).	Enumerate the strategies for green design in buildings. OR	10N
11. B).	Explain the design tool based on ecosystem analogy.	10N
12. A).	Illustrate any case study with respect to environment design and evaluation or	ion. 10N
12. B).	Summarize the various techniques in managing the environment in build	dings. 10N
13. A).	Discuss in detail about any four traditional building materials. OR	10M
13. B).	Outline the specifications for wall and roof in different climate condition	n. 10N
14. A).	Categorize the various building concepts for an Eco House. OR	10N
14. B).	Explain any six green building materials.	101
15. A).	Describe the various parameters for a green building design. OR	101
15. B).		101



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B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023

Course Name: BASICS OF CIVIL ENGINEERING

_	(Common for ME & ECE)	
<u>D</u>	ate: 01.05.2023 AN Time: 3 hours	Max.Marks: 7
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory)	
	Each question carries TWO marks.	10x2=20N
1. V	What is super structure? Distinguish between load bearing and framed structure.	2
2. N	Mention the any four components of the building.	2
3. I	Define sill level.	2
4. V	What is meant by Principles of surveying?	2
5. N	Mention the objectives of the leveling.	2
6. I	List out the various uses of the cement.	2
7. I	Differentiate between plastering and pointing.	2
8. 5	State any four types of roofs.	2
9. 1	What is the role of Ramp?	2
10. I	ist out the different types of water tanks.	2
	PART-B	
<u>A</u>	nswer the following. Each question carries TEN Marks.	5x10=50N
11.A).	Discuss about various components of the residential building.	10
	OR	
11. B)	. Explain about the various factors need to be consider for planning of the building.	ne industrial 10
12. A)	. Define surveying and discuss about the objective and uses of surveying. OR	10
12. B)		10
13. A)	. Discuss about dumpy level and Levelling staff.	10
,	OR	1
13. B)		10
, ,	2p. m. m. detail decar the various Properties of Bricks.	1
14. A)	Discuss about the various types of bonds used in brick masonry. OR	10
(4. B)	Discuss about the different types of flooring used in construction.	10
5. A)		10
5. B).	OR Discuss in detail about intelligent buildings and their advantages	
J. D).	Discuss in detail about intelligent buildings and their advantages.	10



(UGC AUTONOMOUS)

B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023
Course Name: MARKETING MANAGEMENT

D	ate: 03.05.2023 AN Time: 3 hours Max.Mark	ks: 70
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2=	=20M
. I	Define Marketing.	2 M
. I	Explain Marketing Strategy.	2 M
. I	Describe Market Segmentation.	2 M
. 1	Write short notes on branding Positioning.	2 M
. I	Enumerate Integrated Marketing Mix.	2 M
. I	Discuss Personal selling.	2 M
. I	Explain the Functions of Retailing.	2 M
I	Discuss the importance of logistics.	2 M
. I	ist the skills needed for sales manager.	2 M
0. I	Describe the sales objectives.	2 M
A .	PART-B	
A	iswer the following. Each question carries TEN Marks. 5x10=	=50M
1.A).	A Describe the four distinct stages of product life cycle and illustrate appropriate marketing strategies during each stage.	10M
	OR	
1. B).	Discuss the elements of Marketing Mix with suitable illustrations.	10M
2. A).	Demonstrate how the study of consumer behavior can be utilized in marketing. OR	10M
2. B).	Define marketing research and explain the scope of market research.	10M
8. A).	Enumerate the major modes of marketing communication mix. OR	10M
B. B).		10M
1. A).	What is marketing channel system? What decisions do companies face in managing their channels? Explain.	10M
	OR	
4. B).	'Studying market logistics leads managers to find the most efficient ways to deliver values'. Do you agree? Discuss the important issues in logistics.	10M
5. A).	Define sales organization. Discuss the purpose of sales organization. OR	10M
. B).	Explain the nature and importance of sales management in the present pandemic scenario.	10M
		TOIVI



(UGC AUTONOMOUS)
B.Tech VIII Semester Regular Examinations April/May-2023

Da	(Common for CE, EEE & CSE) ate: 03.05.2023 AN Time: 3 hours) Max.Marks: 70
	(Note: Assume suitable data if necessar PART-A Answer all TEN questions (Compulsor	ry)
	Each question carries TWO marks.	10x2=20M
1. L	List different waste conversion devices.	2 M
2. E	Explain the composition of municipal solid wastes.	2 M
3. L	List the methods to produce charcoal.	2 M
4. L	List any four applications of pyrolytic oils.	2 M
5. D	Define gasification.	2 M
6. L	List the different elements in gasifier engine arrangement.	2 M
7. L	List different types of fixed bed combustors.	2 M
8. V	Write any four advantages of Chullahs program.	2 M
	List properties of biogas.	2 M
	Define anerobic digestion.	2 M
Δ,	PART-B nswer the following. Each question carries TEN Marks.	5×10-50M
A	iswer the following. Each question carries TEN Marks.	5x10=50M
11.A).	Explain the importance of Industrial waste utilization with neat sl	ketches. 10M
	OR	
11. B).		
	i) Agro based waste,	5M
12. A).	ii) Forest residue.	5M
12. A).	i) Explain the process of pyrolysis in detail.ii) Compare Slow and Fast Pyrolysis methods.	5M 5M
	OR	5141
12. B).		ytic oils briefly. 10M
13. A).		
	(i) Updraft gasifier	5M
	(ii) Down draft gasifier OR	5M
13. B).		4).
15. 15).	(ii) Kinetic considerations of gasifier in detail.	4M 6M
	(II) ISINCUL CONSIDCIANONS OF EASING IN HEIZH	Rith

14. A).	i) What is meant by exotic design of Biomass Stove?	3M
	ii) Explain the design, construction and operation of fluidized bed gasifier.	7M
	OR	
14. B).	i) Write Short notes on Biomass stoves.	3M
	ii) Explain Design, Construction and Operation of Inclined Grate Combustor.	7M
15. A).	Write short notes on:	
	(i) Thermo Chemical Conversion	5M
	(ii) Direct combustion of Biomass	5M
	OR	
15. B).	Write short notes on:	
	(i) Urban Waste to Energy Conversion	5M
	(ii) Biomass Energy Program.	5M



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech VIII Semester Regular/Supplementary Examinations April/May-2023

	(Common for EEE, ME, ECE, CSE & IT) Date: 03.05.2023 AN Time: 3 hours Max.Mar	ks: 70
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2	=20M
1.	Give impacts of air Pollution.	2 M
2.	What do you mean by sustainability?	2 M
3.	What is cleaner production technology?	2 M
4.	Define zero discharge technology.	2 M
5.	Give the barriers on implementing environment standards.	2 M
6.	Define hazardous waste.	2 M
7.	Give any two roles of an environmental auditor.	2 M
8.	What is waste audit?	2 M
9.	Name some metals present in textile industry effluent.	2 M
10.	How do you dispose hazardous waste?	2 M
	PART-B	
4	Answer the following. Each question carries TEN Marks. 5x10	=50M
11.A)	. Write in brief about the organizational drivers to the implementation of environmental management systems.	10M
	OR	
11. B	What is abatement of pollution. Discuss the major activities initiated under the various schemes on pollution abatement.	10M
12. A). Write in brief about use of clean technologies as part of EMS in an organization. OR	10M
12. B	. State the objectives and benefits of an environmental performance evaluation program.	10M
13. A	Discuss the merits and barriers in implementing ISO 14001 in an organization. OR	10M
13. B)	i) Discuss the objectives and targets of an environmental management programme.ii) Appraise the significance of training awareness on environmental protection.	5M 5M
14. A	Write a process flow diagram for the Management of an Audit Programme as per ISO-19011.	10M
	OR	
14. B)		
	i) Non- conformity ii) Roles and Qualifications of Auditors	5M
	ii) Roles and Qualifications of Auditors. (P.T.O)	5M

15. A).	i) Explain the concept of Transboundary of Pollutants.	5M
	ii) Write a note on Hazardous Waste classification and characteristics	5M
	OR	
15. B).	Discuss Pollution Prevention Opportunities in Pulp Paper and Sugar mills.	10M
