CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Supplementary Examinations April/May-2023
Course Name: BUSINESS MANAGEMENT & FINANCIAL ANALYSIS
(Common for CSE & IT)

Date: 27.04.2023 FN　　　　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.	Define the Organizing.	2 M
2.	Explain the Self-actualization needs.	2 M
3.	Define Societal Marketing.	2 M
4.	Explain Financial Planning.	2 M
5.	Explain Inflation.	2 M
6.	Define the Cost benefit analysis.	2 M
7.	Define the Breakeven point.	2 M
8.	Explain the Production function.	2 M
9.	Define Trading account.	2 M
10.	Define the Partnership firm.	2 M

PART-B
Answer the following. Each question carries TEN Marks.　　**5x10=50M**

11.A).	Define Management and explain its functions.	10M
	OR	
11. B).	Discuss Frederick Taylor's principles of Scientific Management.	10M
12. A).	Write a detailed note on Marketing mix.	10M
	OR	
12. B).	Describe the importance of financial management in business.	10M
13. A).	Differentiate micro and macro-economics.	10M
	OR	
13. B).	Explain the stages of Product Life Cycle with a diagram.	10M
14. A).	Define pricing. Explain various types of pricing.	10M
	OR	
14. B).	Discuss different types of competition in free market system.	10M

(P.T.O..)

15. A).   Define the accounting and explain the double entry book-keeping.   10M

OR

15. B).   Calculate Current Ratio and Quick Ratio from the following particulars.   10M

PARTICULARS	AMOUNT (Rs)
Inventory	1,50,000
Cash	50,000
Sundry debtors	2, 50,000
Creditors	3,00,000
Bills Receivable	30,000
Bank OD	30,000

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Supplementary Examinations April/May-2023
Course Name: AIR POLLUTION & CONTROL
(Common for EEE, ME, ECE, CSE & IT)

Date: 29.04.2023 FN | 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.	Define Air Pollution.	2 M
2.	Broadly classify the air pollutants.	2 M
3.	Define turbulence.	2 M
4.	What is called temperature lapse rate?	2 M
5.	Differentiate Indoor air pollution from others.	2 M
6.	What is stack air pollution?	2 M
7.	List out the various control technique.	2 M
8.	Write a note on scrubbers.	2 M
9.	Discuss any one global episode as environmental issue.	2 M
10.	List out noise standards.	2 M

PART-B
Answer the following. Each question carries TEN Marks. | **5x10=50M**

11.A).	Discuss in detail about the characterization of air pollutants.	10M
	OR	
11. B).	Explain the effects of air pollution on health.	10M
12. A).	Discuss in detail about Wind rose diagram.	10M
	OR	
12. B).	Explain about plume behavior in detail.	10M
13. A).	Discuss about Sampling of particulate pollutants.	10M
	OR	
13. B).	Explain about Gaussian dispersion model	10M
14. A).	Discuss in detail about settling chambers.	10M
	OR	
14. B).	Explain about cyclone separators.	10M
15. A).	How to control air pollution due to automobiles?	10M
	OR	
15. B).	Explain about environmental laws and acts.	10M

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

Course Name: DESIGN PATTERNS

(Computer Science & Engineering)

Date: 02.05.2023 FN	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.	Define catalog of design patterns.	2 M
2.	Sketch MVC architecture.	2 M
3.	Differentiate compositor and composition.	2 M
4.	Write a short note on Design problems.	2 M
5.	Define abstract factory design pattern.	2 M
6.	List five types of creational patterns.	2 M
7.	Sketch the structure of decorator pattern.	2 M
8.	Discuss the role of participants.	2 M
9.	Write the intentions of mediator pattern.	2 M
10.	List the situations where state pattern can be used.	2 M

PART-B
Answer the following. Each question carries TEN Marks.   **5x10=50M**

11.A).	Explain the catalog of design patterns with neat diagrams.	10M
	OR	
11. B).	How to describe the design patterns? Explain each section in detail.	10M
12. A).	Discuss the goals and constraints in choosing an internal representation for a document.	10M
	OR	
12. B).	Explain the Design Patterns in terms of relationship.	10M
13. A).	Explain the Implementation of Abstract Factory with examples.	10M
	OR	
13. B).	Explain the Sample Code and Related Pattern of Prototype Pattern.	10M
14. A).	Explain the structure of Adapter design pattern with class diagram and consequences.	10M
	OR	
14. B).	Give the intent, applicability and structure of composite design pattern and explain it.	10M
15. A).	What is an iterator? Explain the various operations that an iterator supports. Explain them in detail.	10M
	OR	
15. B).	Discuss with suitable scenarios, how state, strategy and visitor patterns can solve design problems.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
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B.Tech VII Semester Supplementary Examinations April/May-2023

Course Name: BIG DATA ANALYTICS

(Common for CSE & IT)

Date: 06.05.2023 FN	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 are the advantages of Big Data?	2 M
2.	List out the applications of Big Data.	2 M
3.	Briefly write the core components of Hadoop.	2 M
4.	What is checkpointing?	2 M
5.	Write the list of configuration files needs to be edited to setup Hadoop?	2 M
6.	What is Reducer Phase?	2 M
7.	What are the running modes of Apache PIG?	2 M
8.	Write the relational operators in PIG?	2 M
9.	Write syntax for creating a table in HIVE?	2 M
10.	What is external table?	2 M

PART-B
Answer the following. Each question carries TEN Marks.   5x10=50M

11.A).	What is NOSQL Database and explain the features of NOSQL database?	10M

OR

11. B).	Write the characteristics and importance of Big Data over Relational database.	10M
12. A).	Explain HDFS architecture with neat diagram.	10M

OR

12. B).	Explain about Hadoop Rack Awareness concept. Also discuss the core components of Hadoop.	10M
13. A).	Explain in detail with neat diagram about Executing Map Phase – Shuffling and Sorting and Reducing Phase Execution.	10M

OR

13. B).	Explain MapReduce Architecture and its applications.	10M
14. A).	i) Write a Pig Latin Script for word count problem.	5M
	ii) Illustrate Parameter Substitution with examples.	5M

OR

14. B).	i) Explain about Processing Data Using Apache PIG.	5M
	ii) Explain about user defined functions in pig with example.	5M
15. A).	Explain the following with examples:	10M
	i) Loading data in HIVE Tables, ii) Managed Tables	

OR

15. B).	Write about HIVE and Illustrate HIVE Architecture.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
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B.Tech VII Semester Supplementary Examinations April/May-2023
Course Name: DISASTER MANAGEMENT & MITIGATION
(Common for EEE, ME, ECE CSE & IT)

Date: 08.05.2023 FN   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.	State different types of the disasters.	2 M
2.	Define landscape approach.	2 M
3.	Name the types of endogenous hazards.	2 M
4.	Write on man induced disaster.	2 M
5.	List three major causes of earth quakes occurred in India.	2 M
6.	Briefly write on the occurrence of landslides.	2 M
7.	Differentiate between cold wave and heat wave.	2 M
8.	List the impacts of floods in India.	2 M
9.	Write about the emergency stage of disaster management.	2 M
10.	Give an insight on mitigation techniques of any one type of disaster.	2 M

PART-B
Answer the following. Each question carries TEN Marks.   5x10=50M

11.A).	Discuss about the environmental stress and concept of environmental hazard.	10M

OR

11. B).	Explain in detail on human ecology and its application on geographical researches.	10M

12. A).	Differentiate between man induced hazards and natural hazards.	10M

OR

12. B).	Describe in detail about endogenous and exogenous hazards.	10M

13. A).	Discuss the environmental impacts of volcanic eruptions.	10M

OR

13. B).	Explain the distribution of earthquakes and methods to reduce effects of the earthquake.	10M

14. A).	Write the methods of conservation measures for soil erosion.	10M

OR

14. B).	Discuss in detail about chemical hazards and nuclear explosion.	10M

15. A).	Explain the role of an engineer to reduce the effects of different disasters occurred in India.	10M

OR

15. B).	Describe in detail the emerging approaches of disaster management and recommend some remedies to control the disasters.	10M

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