CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Supplementary Examinations April-2024
Course Name: WATERSHED MANAGEMENT
(Civil Engineering)

Date: 24.04.2024 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 are the important watershed factors to be considered in watershed management?	2 M
2.	Differentiate hydrology and hydrogeology.	2 M
3.	What are the consequences of soil erosion?	2 M
4.	Write the universal soil loss equation.	2 M
5.	What are the various types of rain water harvesting?	2 M
6.	What is soil moisture and why it is important?	2 M
7.	What is land use and land cover?	2 M
8.	What are the different types of grasslands?	2 M
9.	What is the role of ecosystem?	2 M
10.	How to do soil enrichment?	2 M

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

11.A). Give a brief explanation on hydrology and socio-economic characteristics of watershed.   10M

OR

11. B). Explain the necessity of watershed management in India. & list out the principles of watershed management.   10M

12. A). Explain types of erosion in detail.   10M

OR

12. B). Discuss in detail about erosion control methods: contour techniques, furrowing, ploughing, rock fill dams.   10M

13. A). What is a watershed action plan and why should we develop a watershed plan?   10M

OR

13. B). Describe the role of check dam, farm ponds and percolation tanks in rain water harvesting.   10M

14. A). Where are the saline soils widespread? What are the reclamation measures of the soils? Explain in detail.   10M

OR

14. B). Discuss about the land capability classification.   10M

15. A). Demonstrate in detail inter, mixed and strip cropping.   10M

OR

15. B). What is crop husbandry and sustainable agriculture? Explain them.   10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Supplementary Examinations April-2024
Course Name: Construction Technology and Project Management
(Civil Engineering)

Date: 26.04.2024 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 called motivation performance?	2 M
2.	Brief about strategic implementation.	2 M
3.	Classify construction projects.	2 M
4.	What is Bar chart?	2 M
5.	How equipment planning will be done?	2 M
6.	What is scheduling?	2 M
7.	Demonstrate M- book	2 M
8.	Identify -Muster roll	2 M
9.	Write a note on insurance.	2 M
10.	What is MIS?	2 M

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

11.A).	Explain about Management theories.	10M
	OR	
11. B).	Categorize decision making tools and technique.	10M
12. A).	Differentiate between CPM&PERT.	10M
	OR	
12. B).	Summarize construction stages & resources.	10M
13. A).	Explain Planning for manpower and materials.	10M
	OR	
13. B).	Identify various budgetary control methods.	10M
14. A).	Explain about tender and tender document.	10M
	OR	
14. B).	Rephrase deposits by contractor.	10M
15. A).	Discuss in detail about occupational and safety hazard assessment.	10M
	OR	
15. B).	Explain about laws relating to wages, bonus and industrial disputes.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Supplementary Examinations April-2024
Course Name: TRANSPORTATION ENGINEERING-II
(Civil Engineering)

Date: 29.04.2024 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.	List the various gauges used in Indian Railways.	2 M
2.	Give the various functions of rails.	2 M
3.	Distinguish between gravity yard and hump yard.	2 M
4.	State the principles of interlocking.	2 M
5.	Differentiate runway and apron.	2 M
6.	What is transitional surface in airport design?	2 M
7.	Distinguish between quay and pier.	2 M
8.	Tell about the necessity of docks.	2 M
9.	What is Intelligent Transportation Systems?	2 M
10.	Name the major components of intelligent transport system.	2 M

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

11.A). What is meant by Creep measurement? How to correct creep and how to reduce the creep?   10M

OR

11. B). Enumerate the various types of Sleepers and its advantages and disadvantages with all the details.   10M

12. A). Illustrate with neat sketches a right hand or a left hand turn out, points and crossings with their working principles.   10M

OR

12. B). Explain the various types of horizontal curves in detail with neat sketch.   10M

13. A). Describe the various types of layout with neat Sketch.   10M

OR

13. B). Discuss in detail the factors affecting the choice of the selection of site for an Airport.   10M

14. A). Enumerate the various Site investigation involved in harbour construction.   10M

OR

14. B). Outline about the dredging equipment with neat sketch.   10M

15. A). Explain about Intelligent Transportation Systems in detail.   10M

OR

15. B). Discuss about the factors involved in advanced vehicle control & safety systems and Emergency management & Maintenance.   10M

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