Q. Code:424387

	Reg. No.									
B.E./ B. TECH.DEGREE EXAMINATIONS, MAY 2023 Seventh Semester										
CE18701 – Principles of Construction Management										
(Common to CVE, CSE, INT, EEE, ECE & MAR) (Regulation2018/2018A)										
TIME:3 HOURS MAX. MARKS: 1					100					
COURSE OUTCOM ES	STATE	MENT								BT VEL
CO 1	Describe the steps involved in project life cycle and explain the factors influencing changing environment of construction industry					•	3			
CO 2	Identify the various risks and prepare the org project	anizationa	al struc	ture fo	or the	cons	structio	n	ĺ	3
CO 3	Summarise the design methodology, technol construction projects.	ogical and	econo	mic fe	easibi	lity i	nvolve	d in	•	3
CO 4	Describe how to manage Labour, Material an projects.	nd Equipm	ent eff	fective	ly in	cons	tructio	n		3
CO 5	Illustrate the different types of construction of	ost estima	ites.							3

PART- A(10x2=20Marks)

(Answer all Questions)

		СО	RBT
			LEVEL
1.	Distinguish between general and specialty contractor.	1	1
2.	List out the different skills of a project manager	1	2
3.	List out the different types of organizational structure.	2	2
4.	What are the various functions of project management?	2	2
5.	What is Value Engineering?	3	1
6.	Why it is necessary to integrate design and construction process?	3	2
7.	What is the importance of inventory management?	4	2
8.	List out the different types of equipment commonly used in construction projects.	4	2
9.	What are the different types of cost associated with construction projects?	5	2
10.	Write the advantages of computer aided cost estimation.	5	2

PART- B (5x 14=70Marks)

		Marks	СО	RBT
				LEVEL
11. (a)	Explain the various factors that influence the changing operating	(14)	1	3
	environment of the construction industry.			

(OR)

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(b)	Explain the different phases of a project life cycle specifying the activities	(14)	1	3
	to be carried out in each of the phases.			
12. (a)	Discuss in detail on Turnkey operation and Owner-Builder operation. (OR)	(14)	2	4
(b)	An infrastructure project was planned to be construct in the outskirts of a city. As a civil engineer, identify and explain the various risks associated with the project.	(14)	2	4
13. (a)	Explain the key elements to be included in the technological feasibility study. Why innovative design concepts must be tested for technological feasibility for any infrastructure project?	(14)	3	4
(b)	(OR) State the objectives of the functional design. Illustrate in detail about the integrated functional design for any proposed construction project.	(14)	3	4
14. (a)	Explain in detail about the various factors affecting the selection of construction equipment.	(14)	4	4
(b)	(OR) Discuss in detail about the various factors affecting the job-site productivity of construction project.	(14)	4	4
15. (a)	Explain in detail the effects of scale economics on construction cost with an example.	(14)	5	4
(b)	(OR) Enumerate the different types of construction cost estimates with an example.	(14)	5	4
16.	<u>PART- C (1x 10=10Marks)</u> (Q.No.16 is compulsory) Describe the legal and regulatory requirements for a good construction project.	Marks (10)	со 1	rbt Level 5
