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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

May / June 2025 Semester End Main Examinations

Programme: B.E. **Semester: VIII**

Branch: Civil Engineering **Duration: 3 hrs.**

Course Code: 22CV8HSPPC **Max Marks: 100**

Course: Professional Practice

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

			UNIT - I	CO	PO	Marks
1	a)		Explain the responsibilities of a civil engineer in a professional contract with a client.	*CO1*	*PO6, 8*	**10**
	b)		Compare and contrast the functions of a general contractor and a specialty contractor in a construction project.	*CO1*	*PO6*	**10**
			OR			
2	a)		Elaborate on the different types of companies in the construction industry and evaluate their suitability for various project scales.	*CO1*	*PO6*	**10**
	b)		Describe in detail how a civil engineering firm is organized and managed, including administrative and accounting functions, to ensure professional service delivery.	*CO1*	*PO6, 8*	**10**
			UNIT - II			
3	a)		Analyze the interrelationship between government regulatory bodies, standardization organizations, and professional institutions in ensuring safety and quality in civil engineering practices.	*CO1*	*PO6, 8*	**10**
	b)		Elaborate on how professional certifications and membership in recognized engineering bodies contribute to an engineer's career growth and adherence to ethical standards.	*CO1*	*PO6, 8*	**10**
			OR			
4	a)		Compare and contrast the roles of clients/owners and manufacturers/vendors in construction projects with respect to standards and regulations.	*CO1*	*PO6, 8*	**10**
	b)		Discuss the functions and importance of professional bodies like the ECI and the IEI in maintaining ethical practices	*CO1*	*PO6, 8*	**10**
			UNIT - III			
5	a)		Explain the process of acceptance and withdrawal of tenders, and how acceptance is communicated.	*CO2*	*PO6*	**10**

		b)	Differentiate between express contract, implied contract, and collateral contract with suitable examples.	*CO2*	*PO6, 8*	**10**
			OR			
	6	a)	Discuss the roles and responsibilities of each stakeholder in the construction industry and how their actions are governed by standards, codes, and regulations.	*CO2*	*PO6, 8*	**10**
		b)	Describe in detail the common breaches of contract by both the owner and contractor. How such breaches are typically addressed?	*CO2*	*PO6, 8*	**10**
			UNIT - IV			
	7	a)	Explain the legal framework governing arbitration in India. How does it ensure fair resolution of disputes in engineering and construction projects?	*CO3*	*PO6, 12*	**10**
		b)	Discuss the significance of arbitration clauses in civil engineering contracts. What key elements must be included to ensure enforceability?	*CO3*	*PO6, 12*	**10**
			OR			
	8	a)	Evaluate the role of professional ethics in arbitration. How can misconduct by an arbitrator affect the outcome and trust in the arbitration process?	*CO3*	*PO6, 12*	**10**
		b)	Explain the entire arbitration process from dispute occurrence to award declaration, with reference to civil engineering contract management.	*CO3*	*PO6, 12*	**10**
			UNIT - V			
	9	a)	Evaluate the role and importance of the Code of Ethics defined by the Institution of Engineers (India). How can adherence to this code benefit both engineers and society?	*CO3*	*PO6, 8, 12*	**10**
		b)	Describe the concept of professional responsibility and ethics in engineering. Why are these essential for public safety and trust in infrastructure projects?	*CO3*	*PO6, 8, 12*	**10**
			OR			
	10	a)	Define and explain the various categories of ethics: personal, professional, engineering, business, and corporate. Illustrate their relevance to civil engineering with practical case studies.	*CO3*	*PO6, 8, 12*	**10**
		b)	Define whistleblowing and describe the legal and ethical protections available to whistleblowers. How does this mechanism support transparency in civil engineering organizations?	*CO3*	*PO6, 8, 12*	**10**

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