Total No. of Questions: 12]	96	SEAT No. :	
P1685		[Total No. of Pages	: 3

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Q5)	a)	State the various methods of tunneling in Soft ground. Explain Needle Beam Method with neat sketch. [6]		
	b)	Write a note on Micro Tunneling. OR	[6]	
Q6)	a)	Give the names of types and methods of Tunnel Ventilation. Explain any one in detail. [6]		
	b)	Explain the Tunnel Boring Machine (TBM) Technique in detail.	[6]	
Q7)	a)	With labeled sketch, Define the following terms. i) Shaft ii) Addit iii) Portal iv) Pilot Tunnel	[6]	
	b)	List out the various components of Port. Explain any two in detail. OR	[6]	
Q8)	a)	Define the term Breakwater. Explain necessity in detail.	[6]	
	b)	Write a short note on Wet Dock.	[6]	
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Q9)	a)	Discuss the site selection criteria for harbors. [6]		
	b)	Define the term Port. Bring out the difference between Port and Hark in detail. OR Define the following terms (any four) i) Fenders ii) Dolphins iii) Quay iv) Bulkhead v) Wharves vi) Jetty Explain the Preventive Maintenance of Equipment.	or [6]	
Q10)	a)	Define the following terms (any four)	[6]	
		i) Fenders		
		ii) Dolphins		
		iii) Quay		
		iv) Bulkhead		
		v) Wharves		
		vi) Jetty		
	b)	Explain the Preventive Maintenance of Equipment.	[6]	

<i>Q11</i>) a	what is Depreciation? Explain any one method of Depreciation.	
b	o) Write a short note on : Operating Cost of Equipment.	[6]
	OR	
Q12) a		r a [6]
b	o) Write a short note on:	[6]
	i) Economic life of Equipment.	
	ii) Dumpers.	
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