P.T.O.

	920 Houi	rs/	100	Marks	3	Sea	at No.								
Instructions:		(1)	All Question	ons are <i>c</i>	compuls	ory.									
			(2)	Illustrate y	our ansv	wers wit	h neat s	ketcl	nes w	here	ver n	ecess	sary.		
			(3)	Figures to	the right	t indicat	e full m	arks.							
														M	arks
1.	Atter	Attempt any FIVE of the following:											20		
	(a)	Wha	at are tl	ne features o	of Manil	la Rope	?								
	(b)	Give	e the pi	ofile of an	erection	enginee	er.								
	(c)	Wha	at is pe	rsonal injur	y accide	nts and 1	property	y dan	nage	accid	lents	?			
	(d)	Wha	at are tl	ne benefits o	of accide	ent preve	ention?								
	(e)	Wha	at is ali	gnment test	?										
	(f)	How	is the	handling of	f loads o	n slings	done?								
	(g)	Desc	cribe th	ne steps in e	rection o	costing.									
	(h)	Diff	erentia	te between	installati	ion and	mountii	ng.							
2.	Attempt any FOUR of the following:											16			
	(a)	What are the uses of spreads bars?													
	(b)	Desc	cribe th	ne pull lift h	oist with	h a neat	sketch.								
	(c)	Give	e any fo	our uses of	spur gea	red hois	t.								
	(d)	Wha	at is en	dless sling a	and turn	buckle s	sling?								
	(e)	State	e any f	our connect	ing tools	s and ex	plain an	ıy tw	o.						

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(f)

What is the need for erection costing?

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3.	Attempt any FOUR of the following:								
	(a) How is the inspection of hoisting chains done?								
	(b)	Give	the merits and demerits of Manila rope sling. (any two each)						
	(c)	Wha	t is the use of pads at sharp edges while placing slings?						
	(d)	Wha	t are the considerations taken for correct handling of loads?						
	(e)	Desc	cribe differential chain hoist.						
	(f)	Wha	t is whipping and seizing of ropes ?						
4.	Attempt any TWO of the following:								
	(a)	Give the construction and any four applications of steel wire ropes.							
	(b)) What are the objectives for devicing hoist signals? Explain any four ho							
		signals for crane operation.							
	(c)	e) How is the advance planning done for erection and installation of process							
		equi	pments?						
5.	(a)	(a) Attempt any ONE of the following:							
		(i)	What are knots, bends, hitches and splices?						
		(ii)	How is the hook position done while handling of loads?						
	(b)	Atte	mpt any TWO of the following:	12					
		(i)	Give the precautions in handling steel wire rope and synthetic fibre						
			ropes.						
		(ii)	Give in details the mounting of heavy pressure vessels like boilers.						
		(iii)	Define accident prevention. What is good housekeeping?						
6.	Attempt any TWO of the following:								
	(a)	(a) Describe the characteristics and features of the following natural fiber rope :							
		(i)	hemp rope						
		(ii)	coir rope						
	(b)	What are the major causes of accidents? What is good housekeeping?							
	(c)	(c) What is the procedure at site operation while erecting and installing of							
		equi	equipments?						