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Instructions:	(1) All qu	estions are com	pulsory.						
	(2) Answe	er each next ma	in questi	on on a	new po	age.			
	(3) Illustrate your answers with neat sketches wherever necessary.								
	(4) Figure	es to the right in	ıdicate fi	ull mark	TS.				
								M	larks
. Attempt any five of the	ne following	; :							20
a) What is the role of	f Erection E	ngineer?							
b) Write the inspection	on of hoistir	ng chain and its	necessity	y.					
c) What is the need of	of estimation	n of centre of gr	avity of	loads?					
d) What are the differ	rent types o	f chain hoist. W	rite its u	ses.					
e) What are the cause	es of accide	nts?							
f) What are requirem	nents of adv	ance planning in	n erection	n of pro	cess eq	uipme	ent.		
g) Describe the steps	in erection	costing.							
. Attempt any four of t	he followin	g :							16
a) What are the differ	rent types o	f ropes used in	erection '	? Descri	ibe thre	e strai	nded 1	rope.	
b) Describe with sket	tch double b	basket sling and	turnbucl	kle sling	<u>.</u>				
c) Describe the use o	of pads at sh	arp edges while	placing	slings.					
d) Explain the constr	ruction and	working of pull	lift hoist						
e) What is accident p	prevention, e	explain property	damage	accider	nts.				
f) What is pressure to	esting of ve	ssel? How it is	carried o	out?					
. Attempt any four of t	he followin	g :							16
a) Describe the requi	irements of	selection of SW	R.						
b) Write the construc	ction of doul	ole choker sling	-						
c) Write the use of sp	preader bar.								
d) Differentiate betw	een differer	ntial hoist and p	ull lift ho	ist.					
e) What are the huma	an factors in	accident preve	ntion?						

f) What is the need of physical checking of dimensions of equipments and foundation?



		Marks
4.	. Attempt any two of the following:	16
	a) i) Describe right hand and left hand direction of lay.	
	ii) Explain inspection of synthetic fibre rope.	
	b) i) What are the benefits of accident prevention?	
	ii) Draw any four hoisting signals.	
	c) i) Why final tightening of bolts is done by pneumatic torque wrench?	
	ii) Write the importance of safety instructions.	
5.	a) Attempt any one of the following:	4
	i) What is whippling and seizing of ropes?	
	ii) Sketch knots and bends of ropes.	
	b) Attempt any two:	12
	i) What are the different considerations while handling load? Describe any	one.
	ii) Describe the importance of proper illumination for safe working condition	n.
	iii) What is the effect on site operation of proper tools and tackles?	
6.	. Attempt any two:	16
	a) i) What is braided rope construction?	4
	ii) What are the objectives for devicing hoist signals?	4
	b) Write the lubrication and storage of wire ropes.	8
	c) i) What is the time schedule followed during erection?	4
	ii) What are the advantages of using manila wire rope?	2
	iii) Define erection costing.	2