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3 Hou	rs /	10	0 Marks	Seat	No.							
Instructi	ons –	 (1) (2) (3) 		next mai	n Quest							
			Figures to the Mobile Phone Communication Examination	, Pager an on devices	d any o	other	El	ectr				
										ľ	Mai	rks
	-	·	<u>FIVE</u> of the	C		N T -						20
	pes.	recaut	ions in handli	ng and sto	oring of	Nat	ural	11	ore			

- b) Write merits and demerits of slings.
- c) What is the use of spreader bar.
- d) Describe the operation of differential hoist.
- e) Compare personal injury and property damage accidents.
- f) List the causes of accidents.
- g) Describe steps in erection costing.

17623

2.

3.

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Attempt any FOUR of the following: What are the features of Manila Rope. a) b) Describe the use of pads at sharp edges while placing slings. What are knots, bends and hitches. c) Describe Spur Geared hoist. d) Advantages of accident preventive measures. e) What are the tools used in Boiler erection and steps in f) mounting. Attempt any FOUR of the following: Describe SWR construction and their applications. a) What is the need of inspection of hoisting chain. b) Describe the necessity of adjustment of length of sling length. c)

- d) Describe the construction and operation of pull lift chain hoist.
- e) What are major causes of accidents?
- f) Explain boiler mountings.

4. Attempt any <u>TWO</u> of the following:

- a) (i) What are the different types of wire rope attachment explain any one.
 - (ii) What are types of connecting tools. Explain any two.
- b) (i) What are the human factors responsible for accidents?(ii) What is good housekeeping.
- c) What are the steps in advance planning of erection process.

16

16

Marks

5.	a)	Attempt any <u>ONE</u> of the following:					
		(i)	Explain plain and braided construction for rope.				
		(ii)	Enlist the types of costs in erection work.				
	b)	Attempt any TWO of the following:					
		(i)	What are the three conditions for safe handling of loads? Explain any one.				
		(ii)	What are different types of Hoist Signals. Sketch any four.				
		(iii)	Explain site operations.				
6.		Attempt any TWO of the following:					
	a)		detailed classification of Ropes. Explain any one synthetic rope.				
	b)	Describe the characteristics and features of following N fiber ropes					
		(i)	Hemp Rope				
		(ii)	Coir Rope				

c) Enlist accident preventive measures explain any one.