

17623

21819

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

5 × 4 = 20

- (a) How is the lubrication of steel wire Rope done ?
- (b) What is Hemp Rope ?
- (c) What are knots and bends ?
- (d) What are the steps in Erection costing ?
- (e) What is the need of Erection costing ?
- (f) What are the causes of accidents ?
- (g) Explain any two connecting tools.

2. Attempt any FOUR of the following :

16

- (a) What is the use of spreader bar ?
- (b) Explain Pull lift hoist.
- (c) Compare personal injury & property damage accidents.
- (d) Why is pads at sharp edges required while placing slings ?
- (e) What are the benefits of accident prevention ?
- (f) Explain with a neat sketch choker sling and double choker sling.

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- 3. Attempt any FOUR of the following : 16**
- (a) Explain the meaning of the term erection and installation.
 - (b) What is alignment test ?
 - (c) What are hitches and splices ?
 - (d) What is the function of core of steel wire rope ?
 - (e) How is the inspection of steel wire rope done ?
 - (f) What is whipping and seizing of ropes ?
- 4. Attempt any TWO of the following : 16**
- (a) What are the steps in advance planning of erection process ?
 - (b) What are the main objectives for devising hoist signals ? Draw any two hoist signals.
 - (c) (i) What are the precautions in handling and storing synthetic fibre rope ?
(ii) What are the different types of wire rope attachments ? Explain any one.
- 5. Attempt any FOUR of the following : 16**
- (a) What is kinking ? What is caused of kinking ?
 - (b) What is Endless sling and turn buckle sling ?
 - (c) What are the considerations for correct handling of loads on slings ?
 - (d) Explain differential hoist.
 - (e) What is good house keeping ?
 - (f) Give the importance of Erection of pressure vessels.
- 6. Attempt any FOUR of following : 16**
- (a) What is Manila Rope ?
 - (b) How is the position of hook done in handling of loads ?
 - (c) Explain screw geared hoist.
 - (d) What are the steps in site operation of erection and installation process ?
 - (e) What are the different measures to Prevent accident ?
 - (f) Explain boiler mountings.
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