

17456

15116

3 Hours / 100 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following: **20****
- a) State the method of roundness measurement using a V - block.
 - b) Explain the method of hot shrinking for straightening.
 - c) Compare line standard and End standard.
 - d) State the application of composites (any four).
 - e) state the method of heat triangles for straightening.
 - f) State the different types of tools used for marking.
 - g) State any one method of marking a large size plate.
 - h) Explain any one chemical method of surface cleaning.

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- 2. Attempt any FOUR of the following:** **16**
- a) State the types of materials used for templates, with its use.
 - b) Define precision and accuracy.
 - c) State the different compositions of composites.
 - d) Explain the method of flat circles used for flatness testing.
 - e) State the essentials of plant layout.
 - f) Give the broad classification of measurement.
- 3. Attempt any FOUR of the following:** **16**
- a) State the need of cleaning and coating (any four)
 - b) Explain Box Template.
 - c) Draw and explain process layout.
 - d) State the methods of marking out bolt holes for flanges.
 - e) State and explain any one process used for processing of composite.
 - f) State the method of marking out holes in angle sections.
- 4. Attempt any TWO of the following:** **16**
- a) State the method used for marking out instrumental panel.
 - b) Define plant layout and state the factors influencing plant layout.
 - c) State the method used for marking hopper plates by using template.
- 5. Attempt any FOUR of the following:** **16**
- a) State the use for applied stiffeners.
 - b) Explain the method of drawing an ellipse by using an elliptical trammel.
 - c) Explain any one method used for straightness testing.
 - d) Explain thermal method of surface cleaning.
 - e) How template is act as a means of checking?
 - f) Explain the method of stiffening large panels.

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[3]

Marks

6. Attempt any FOUR of the following:

16

- a) How template can be used for an economical arrangement of layout of press work.
 - b) Give importance of plant layout.
 - c) What are different methods used for stiffening sheet metal.
(any two)
 - d) Explain dry surface cleaning method.
 - e) Explain use of heat strip for straightening.
 - f) State the requirement of web stiffeners.
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