17456

11920 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.

1. Attempt any FIVE of the following :

- (a) Define Accuracy & Precision.
- (b) List the tools used in marking.
- (c) State the need of templates.
- (d) Describe the method of plotting ellipse by using elliptical trammel.
- (e) Compare Manual & Machine straightening.
- (f) State the applications of composites.
- (g) Describe any one mechanical method of cleaning.

2. Attempt any FOUR of the following :

- (a) Describe the method of chalk line for marking long straight line.
- (b) Describe the method of squareness testing by using engineers square.
- (c) State the need of surface cleaning & coating.
- (d) State any four importance of factory layout.
- (e) Describe the method of applied stiffners.
- (f) How template can be used as a means of checking ?

[1 of 2] P.T.O.

Marks

$5 \times 4 = 20$

 $4 \times 4 = 16$

3. Attempt any TWO of the following :

- (a) Compare line standard & end standard.
- (b) Give the detailed classification of measurement.
- (c) List and describe any one method of processing of composites.

4. Attempt any FOUR of the following :

- (a) Describe the method of vertical datum alignment by using plums line & surveyors level.
- (b) Compare the method of Direct marking & Template marking.
- (c) Describe the method of roundness testing by rotating on centres.
- (d) Describe the method of thermal method of surface cleaning.
- (e) State the need of web stiffners.
- (f) Describe the method of neat strips for straightening.

5. Attempt any TWO of the following :

- (a) Describe the process of marking of holes in angle sections.
- (b) State the need of stiffening & explain the method of stiffening of large panels.
- (c) List the types of plant layout. Describe product layout with neat sketch.

6. Attempt any FOUR of the following :

- (a) How template can be used to provide an economical arrangement of layout for press work ?
- (b) Describe the process of marking out bolt holes for flanges.
- (c) What are the factors which affects the selection of plant layout ?
- (d) Describe the method of hot shrinking .
- (e) Describe Dry method of surface cleaning.
- (f) What is dynamics of plant layout ?

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 $4 \times 4 = 16$

 $4 \times 4 = 16$

 $8 \times 2 = 16$