

22487

12425

3 Hours / 70 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE of the following :**

**10**

- (a) Enlist any two uses of tumbling technique.
- (b) State any four types of adhesives.
- (c) Enlist any four adhesive application methods.
- (d) Draw the sketch of V joint and scarfed joint.
- (e) State impulse sealing.
- (f) Draw neat labelled figure of induction welding.
- (g) State any four surface pre-treatment techniques.

**2. Attempt any THREE of the following :**

**12**

- (a) Describe the procedure of filing and polishing technique.
- (b) Explain with neat figure the butt joint and lap joint.
- (c) Describe jaw type bar sealer and rotary sealer.
- (d) Explain corona discharge treatment for polymers with neat figure.



- 3. Attempt any THREE of the following : 12**
- (a) Explain the procedure of drilling and sawing technique.
  - (b) Describe liquid adhesive and hot melt adhesive.
  - (c) Explain with neat figure the snap fitting process.
  - (d) Explain with neat figure the flexographic printing technique.
- 4. Attempt any THREE of the following : 12**
- (a) Describe any two principle considerations for machining tool geometry.
  - (b) Describe the procedure for cementing of PC.
  - (c) Explain rotogravure printing technique with neat figure.
  - (d) Describe PVC Powder coating method.
  - (e) Explain with neat figure the friction static spraying method.
- 5. Attempt any TWO of the following : 12**
- (a) Explain with neat figure the roll coaters for adhesive application.
  - (b) Explain with neat figure the hot gas welding process.
  - (c) Describe sputtering process for decorating the polymers.
- 6. Attempt any TWO of the following : 12**
- (a) Explain with neat figure the hot plate welding process.
  - (b) Describe flocking process of decorating the polymers.
  - (c) Describe dry blend manufacturing method of powder coating with neat figure.
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