

22489

12425

03 Hours / 70 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 answer 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:** **10**
- a) State any two functions of packaging.
 - b) Enlist any two properties and two applications of PE in packaging.
 - c) State any two advantages of polymers in packaging.
 - d) Enlist any two advantages of flexible packaging.
 - e) Draw neat labelled figure for pressure forming process.
 - f) Draw neat labelled figure for plug assisted forming process.
 - g) Draw three side seal pouch and four side seal pouch.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Enlist any four properties and four applications of PP in packaging.
 - b) Describe blown film extrusion process with neat figure.
 - c) Explain the neat figure the skin packaging process.
 - d) Describe with neat figure the construction of pillow pouch.
- 3. Attempt any THREE of the following:** **12**
- a) Enlist any four properties and four applications of PET in packaging.
 - b) Describe cast film extrusion process with neat figure.
 - c) Explain with neat figure the vacuum forming process.
 - d) Describe pad printing process with neat figure.
- 4. Attempt any THREE of the following:** **12**
- a) State any four selection criteria for packaging material.
 - b) Describe modified atmosphere packaging process.
 - c) Explain with neat figure the bar sealing method.
 - d) Describe vibration test for packages.
 - e) Explain product loss test for packages.
- 5. Attempt any TWO of the following:** **12**
- a) Explain with neat figure the process of dry adhesive lamination.
 - b) Describe with neat figure extrusion blow moulding.
 - c) Explain screen printing method with neat figure.
- 6. Attempt any TWO of the following:** **12**
- a) Describe with neat figure injection blow moulding.
 - b) Explain with neat figure vertical form fill seal process.
 - c) Describe stack load test for packages.
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