

22489

24225

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--

-
- Instructions* – (1) All Questions are *Compulsory*.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
(5) Abbreviations used are their usual meanings.

Marks

1. Attempt any FIVE of the following : 10
- a) Enlist any two properties and two applications of PE in packaging.
 - b) Define film.
 - c) Draw neat labelled diagram for vacuum forming process.
 - d) State any two properties and two applications of PP in packaging.
 - e) Draw neat labelled figure for dual sheet forming process
 - f) List any two properties and two applications of PS in packaging.
 - g) Draw neat diagram of stand up pouch.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Enlist any four properties and four applications of PVDC in packaging.
 - b) Describe multilayer film extrusion process with neat figure.
 - c) Explain with neat diagram the plug assist packaging process.
 - d) Describe with neat diagram the construction of three side and four side seal pouch.
- 3. Attempt any THREE of the following :** **12**
- a) Enlist any four properties and four applications of EVOH in packaging.
 - b) Describe extrusion coating with neat figure.
 - c) Explain with neat figure the pressure forming process.
 - d) Describe gravure printing with neat figure.
- 4. Attempt any THREE of the following :** **12**
- a) State any eight advantages of polymers in packaging.
 - b) Enlist any eight advantages of flexible packaging.
 - c) Describe with neat figure the impulse sealing method.
 - d) Enlist any four packaging hazards with their control.
 - e) Explain compatibility test for packages.
- 5. Attempt any TWO of the following :** **12**
- a) Explain with neat figure the cast film extrusion process.
 - b) Describe with neat figure the skin packaging. Enlist any two advantages and two applications of skin packaging.
 - c) Explain band sealing method with neat figure. State its two advantages and two disadvantages.
- 6. Attempt any TWO of the following :** **12**
- a) Describe with neat diagram extrusion blow moulding.
 - b) Explain with neat figure the pad printing process. State its any four advantages.
 - c) Describe vibration test for packages.
-