

6th Sem.  
Branch : Plastic Technology  
Sub. : Advance Plastic Processing Techniques

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note: Multiple type Questions. All Questions are compulsory. (6x1=6)**

- Q.1 PET Bottles are generally manufactured by
- a) Blow moulding
  - b) Stretch blow moulding
  - c) Extrusion blow moulding
  - d) None
- Q.2 Plastic product with two color can be produced by
- a) Two color injection moulding
  - b) Multilayer extrusion
  - c) Liquid assisted mould
  - d) Water assisted moulding
- Q.3 Corrugated sheets are generally made by
- a) Extrusion process
  - b) Compression moulding
  - c) Injection moulding
  - d) None

- Q.4 Liquid Injection Moulding is used for processing \_\_\_\_\_ materials.
- Thermoplastics
  - Thermosets
  - Metals
  - Ceramics
- Q.5 Multi layer packaging provides \_\_\_\_\_.
- Reduced barrier properties
  - Increased barrier properties
  - No impact on packaging
  - Weak mechanical strength
- Q.6 Reaction Injection Moulding is used in which of the following processes?
- Foam Moulding
  - Blow Moulding
  - Compression Moulding
  - Thermoforming

### **SECTION-B**

**Note:** Objective/Completion type questions. All questions are compulsory. **(6x1=6)**

- Q.7 Write one disadvantages of multilayer packaging.
- Q.8 Give one advantages of paper plastic laminates.
- Q.9 Give one application of Profile Extrusion.
- Q.10 Water Assisted Injection Moulding helps in making \_\_\_\_\_ parts.
- Q.11 Write complete name of RIM.
- Q.12 What is the role of tie-bar less injection moulding?

### **SECTION-C**

**Note:** Short answer type Questions. Attempt any eight questions out of ten Questions. **(8x4=32)**

- Q.13 Explain the working principle of Gas Assisted Moulding.
- Q.14 What is Two-Colour Injection Moulding?
- Q.15 What are the key applications of Multi layer Blown Films?
- Q.16 Explain Principle of RIM with simple diagram.
- Q.17 What is metal plastic lamination. Write its application.
- Q.18 Describe the impact of robotics in plastic moulding.
- Q.19 Describe Thin Wall Injection Moulding.
- Q.20 What are the advantages and disadvantages of Multi-Layer Blown Films?
- Q.21 Explain Injection stretch blow moulding.
- Q.22 Describe Thin Wall Injection Moulding.

### **SECTION-D**

**Note:** Long answer questions. Attempt any two questions out of three Questions. **(2x8=16)**

- Q.23 Discuss the manufacturing process of Corrugated Sheets using Extrusion.
- Q.24 Describe the multilayer extrusion process and its advantages and disadvantages.
- Q.25 Give name of any five co injection moulding process and explain any one of them.