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222263A

Roll No.

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.
- a) Thermoplastics b) Thermosets
c) Metals d) Ceramics
- Q.5 Multi layer packaging provides _____.
- a) Reduced barrier properties
b) Increased barrier properties
c) No impact on packaging
d) Weak mechanical strength
- Q.6 Reaction Injection Moulding is used in which of the following processes?
- a) Foam Moulding
b) Blow Moulding
c) Compression Moulding
d) 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.