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222255A

5th Sem. / Plastic Technology
Subject : Plastic Packaging and Printing

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Laminated films are made using
a) Co-Extrusion b) Adhesive Bonding
c) Extrusion Lamination d) All of above
- Q.2 LLDPE is a
a) Homo polymer b) Co-Polymer
c) Blend d) Alloy
- Q.3 Which of following process is used to make strips of tablets & capsules?
a) Compression Moulding
b) Calendering
c) Blistering
d) Thermoform fill and seal
- Q.4 To distribute food in flood affected areas, you will pack it in
a) Paper b) Metal
c) Plastics d) Steel

Q.5 Calendering process is most commonly used to make films with which of following materials

- a) PS
- b) PVC
- c) PE
- d) PMMA

Q.6 Spices should be packed in

- a) Paper
- b) Single layer Plastics film
- c) Plastics Plastic Laminate
- d) Plastics Metal Laminate

Section-B

Note: Objective/Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

Q.7 Expand the term BOPP.

Q.8 Define Co-Extrusion.

Q.9 Which printing technique is used to print plastics cups?

Q.10 Which plastics material is used in the sealing unit of Cutting and sealing machines?

Q.11 Blow films have more build in stresses than extruded films. (T/F)

Q.12 Expand and define BUR.

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. $(8 \times 4 = 32)$

Q.13 What is the role of printing in plastics packaging. Write four points.

Q.14 Write the steps involved in EBM process.

Q.15 Define Haze and Gloss.

Q.16 Explain dart impact test. Give its significance.

Q.17 Packaging for potato Wafer requires primary recycling or chemical recycling. Justify your answer.

Q.18 With a neat sketch, write extrusion lamination process to make paper plastics laminates.

Q.19 State four important properties of PP, as a packaging material.

Q.20 With a neat sketch write screen printing process.

Q.21 What is sterilization, give its significance.

Q.22 Write four characteristics of PET material, which make it suitable for making single use water bottles.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. $(2 \times 8 = 16)$

Q.23 Give principal of blown film process. With a neat sketch explain the working of three layers blown film plant.

Q.24 Write various test methods to certify the woven sacks. Write any two methods in detail.

Q.25 Write

- a) Four characteristics of a typical packaging material.

- b) Give two plastics materials used in packaging. Write four properties of each.