

Q.24 Write short note on -

- a) Weld lines
- b) Undercut

Q.25 Explain various preliminary design considerations for plastic product design.

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6th Sem / Plastic Technology

Subject : Plastic Product Design

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Secondary processing operation is

- a) Printing
- b) Moulding
- c) Casting
- d) Transfer molding

Q.2 Engineering thermoplastic is/are

- a) ABS
- b) Nylon
- c) Both A&B
- d) LDPE

Q.3 Creep is _____ dependent property.

- a) Time
- b) Density
- c) Torque
- d) Surface tension

Q.4 Intersecting holes are generally provided in

- a) T section
- b) Elbow section
- c) Both A&B
- d) None of these

(40)

(4)

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(1)

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Q.5 Corner radius radius should be minimum _____ of part thickness.

- a) 1/4 b) 1/2
c) 1/10 d) All of these

Q.6 Rivets provide

- a) Permanent mechanical joint
b) To assemble thin section
c) Both A & B
d) None of these

SECTION-B

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

Q.7 Define ribs.

Q.8 Define fillets.

Q.9 Define bosses.

Q.10 Define undercut.

Q.11 Define gate.

Q.12 Define product.

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SECTION-C

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

Q.13 Discuss various stages of product life cycle (PLC)

Q.14 Explain feasibility and its importance in plastic industries.

Q.15 Write the name of four mechanical requirements of plastic products.

Q.16 Explain cost economic of plastic product.

Q.17 Explain holes and their types.

Q.18 Discuss gate and their classification based in plastic product.

Q.19 Describe wall thickness of plastic product.

Q.20 Explain ribs with neat sketch.

Q.21 Explain any two types of welding techniques.

Q.22 Discuss solvent cementing and adhesion.

SECTION-D

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

Q.23 Explain threads, their types and importance of threads in plastic product design.

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