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3rd Year / Advance Diploma in Tool and Die Making

Subject : Tool Design - III (Plastic Moulds)

Time : 3 Hrs. M.M. : 60

SECTION-A

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

Q.1 In compression moulding practically are possible

a) thick section b) Large part

c) small part d) all

Q.2 Which of the following moulding process is used for manufacturing of plastic bottles

a) Compression b) injection

c) transfer d) blow

Q.3 The process of producing plastic components in moulds without application of pressure

a) Moulding b) laminating

c) calendering d) casting

Q.4 The part that opening at entrance of cavity

a) gate b) runner

c) score d) sprue

Q.5 Injection pressure measured in

a) kg/mm^2 b) kg/cm^2

c) ton/cm^2 d) ton/mm^2

Q.6 Centre feed die consist of

a) mandrels b) spider

c) die ring d) all

SECTION-B

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

Q.7 What is thermoplastics?

Q.8 What is plastic material

Q.9 Full form of PET is_____

Q.10 Define transfer moulds

Q.11 Define surface finishing

Q.12 Define maintenance of moulds

SECTION-C

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

Q.13 Write applications of injection moulding machines.

Q.14 Write material used for core and cavity

Q.15 Explain types of cooling systems in compression moulds

Q.16 Describe Etching.

Q.17 Define cycle time estimation

Q.18 Define pre moulding techniques

Q.19 Define operator safety

Q.20 Write short note on post moulding techniques

Q.21 Define machine shut height

Q.22 Define shrinkage for moulds

SECTION-D

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

Q.23 Describe in detail

i) Classification of surface roughness values

ii) Surface texture requirements

Q.24 Explain briefly for design parameters of machines platen layout, cycle time, temperature control.

Q.25 Explain with diagram in detail inclined flash mould.