

Q.24 Explain :

- 1) Handling of Dies and materials
- 2) Procedure for storage of die casting

Q.25 Write briefly note on the principle of processing of ferrous and non-ferrous metal using software package.

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3rd Year / Advance Diploma in Tool and Die Making

Subject : Tool Design - IV (Forging & Casting Dies)

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 During drawing operation which type of stress produced

- | | |
|-----------------|----------------|
| a) Tensile | b) Compressive |
| c) both a and b | d) none |

Q.2 Which of following extrusion process die housed by ram or plunger

- | | |
|-------------|------------|
| a) Direct | b) forward |
| c) backward | d) all |

Q.3 Which gauge used to measure shaft diameter

- | | |
|-----------|---------|
| a) Feeler | b) Wire |
| c) snap | d) plug |

Q.4 In blanking operation clearance provided on

- a) Die b) punch
- c) both a and b d) none

Q.5 Which is not a section of tool engineering

- a) Tool room b) Manufacturing
- c) Tool Design d) Tool storage

Q.6 Upset forging is operation of making

- a) Head of bolt b) Keyway on shaft
- c) Thread on bolt d) Hole on washer

SECTION-B

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

Q.7 Define cavity.

Q.8 Define forged materials.

Q.9 Write two factors causing die failure.

Q.10 What is feeding?

Q.11 Full form of PS in mould materials?

Q.12 Write two parts of mould

SECTION-C

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

Q.13 Write industrial application of plastics

Q.14 Explain process of injection moulding

Q.15 Define landed plunger mould

Q.16 Define functions of plunger

Q.17 Define layout of mould design

Q.18 Explain Estimation parameters of mould

Q.19 Define safety and storage with respect to machine

Q.20 Define mould safety

Q.21 Define single cavity mould

Q.22 Define surface treatment of mould

SECTION-D

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

Q.23 Explain briefly overview of mass production of moulded plastic components