

- Q.4 Draw the assembly of an extrusion die for tube. List out the parts and explain their function briefly.
- Q.5 Derive an equation to determine the heating capacity required for compression moulding.
- Q.6 Write a short notes on:-
(a) Tubing die.
(b) Die land.
- Q.7 Write a short notes on:-
(a) Die for rod
(b) Mandrel design

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5th Sem. / Plastic Technology
Subject : Design Of Dies & Mould-II

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What is pressure mould?
b) Write a main two disadvantages of transfer mould?
c) What is pressure pad?
d) What is bottom force & top force?
e) What is cure time?
f) What should be the shape of plunger and pot of a transfer mould?
g) What is the media of heating in the compression mould?
h) Where the transfer mould is used?
i) What is convergent & divergent in a die?
j) Name the type of dies used for making film?

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- k) What are the type of blow mold?
- l) What are the different parts of a blow mould?
- m) Is any core required for blow mould?
- n) When do you prefer blow mould over injection mould?
- o) How the parison is to be controlled?
- p) What is sink marks & voids?
- q) What is dead spot?
- r) What is mandrel?

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What do you mean by die swell?
 - ii) How is pressure built up in the melt after it has passed round the spider legs and through the breaker plate?
 - iii) Give the advantages of multilayer co-extrusion.
 - iv) What are the various heating systems for dies?

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- v) How will you calculate the pot depth?
- vi) Why beryllium copper alloy is used for pinch of insert?
- vii) What is pinch off. Give its function.
- viii) With a neat sketch explain venting of blow mould.
- ix) What is the use of breaker plate?
- x) What is spider legs of a die?
- xi) Draw a free hand sketch of any one die, Which may be used for making pipe.
- xii) Why the venting is necessary for compression & transfer moulds?
- xiii) What is the purpose of cull pick up?
- xiv) What are the types of loading chamber?
- xv) Give an equation to find out the strength of cavity.

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Draw the assembly of a blow mould and give the details of the parts.

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