Q.30 Explain heating and cooling arrangements for compression moulds .

Q.31 Give advantage of positive compression mould over semi positive comression mould.

Q.32 Discuss Z-type of cooling connection.

Q.33 Explain any two plastic materials used in blow moulding along with their properties.

Q.34 Give difference between feed block and multi manifold die used for co extrusion.

Q.35 What is pinch off? Explain its importance.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain side feed, spider type and spiral mandrel type blown film dies used blown film extrusion, with their advantages and disadvantages.

Q.37 Discuss flat film extrusion process with complete diagram, representing various type of dies used in the process

Q.38 Discuss:

a) Selection criteria for compression moulding machine.

b) Advantages and disadvantages of compression moulds.

No. of Printed Pages : 4 182262/122262/032253

Roll No. .....

6th Sem / Plastic Engineering, Chem Engg.
(Spl Polymer Tech.)
Subject:- Design of Dies and Mould-II

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 ____type of mould is used in Compression moulding ?

a) One-plate mould b) Two-plate mould
c) Three-plate mould d) Four-plate mould

Q.2 Function of mould runner is to_____?

a) Vent trapped air
b) Provide entry into the mould cavity
c) Define mould parting line
d) Provide path to the mould gates

Q.3 Which part is used to shape the parison in blow moulding process?

a) Die b) Mould
c) Punch d) Cup

Q.4 Which part is an opening at the entrance of the cavity?

a) Runner b) Gate
c) Sprue d) Core

Q.5 Which die enable the material to enters centrally and forwarded away

a) Side feed die b) Spider die
c) spiral mandrel type d) Bottom feed die

Q.6 Which tool is used for making external threads ?

a) Tap b) Die
c) Reamer d) Drill bit

Q.7 Which type of mould requires accurate weighed charge material in compression moulding ?

a) Flash mould b) Positive mould
c) Landed mould d) Semi-positive mould

Q.8 What is the purpose of guide pillars in compression moulding process ?

a) To retain the Shape b) To maintain pressure
c) To improve Distance d) To ensure alignment

Q.9 Which material is used for making blow moulds ?

a) Mild steel b) Aluminium
c) Stainless steel d) High Carbon Steel

Q.10 Which of the following process makes epoxy mould?

a) Casting b) Machining
c) Hot press moulding d) Injection moulding

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define function of sprue bush.

Q.12 ____ is the connecting member between gate and sprue bush.

Q.13 Striper plate ejection method is suitable for thin wall box type moulding (True/False)

Q.14 Tap gate is mostly used to avoid undesirable jetting on the moulded part .(True/False)

Q.15 Vents are provided for easy removal of entrapped air inside mould .(True/False)

Q.16 ____and_____are the main elements of mould .

Q.17 Name the two materials used for blow moulding process.

Q.18 Give two functions of band heaters .

Q.19 _____die is ued for wire coating.

Q.20 Mould closing and opening depends on size of the component .(True/False)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain die used for making plastic rods.

Q.22 Explain various types of die material used in extrusion dies.

Q.23 Explain die head assembly for blow mould.

Q.24 Explain neck design for injection blow mould

Q.25 Give comparison between compression and transfer moulding process.

Q.26 Explain heating and temperature control systems for dies .

Q.27 Discuss parison thickness control in blow moulds.

Q.28 Explain die swell.

Q.29 Explain integral pot transfer mould .