Q.27 Give difference between compression and transfer moulding

Q.28 Explain temperature and pressure control for extruder process.

Q.29 Explain parison wall thickness control in blow moulding

Q.30 Explain Principle of transfer moulding.

Q.31 Draw moulding cycle for compression moulding process.

Q.32 Discuss selection parameter for compression moulding machine

Q.33 Give advantage of positive compression mould over semi positive compression mould

Q.34 Discuss Mould cooling for blow moulds.

Q.35 Explain Principle of compression moulding.

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 in blown film extrusion, with neat sketch.

Q.37 Discuss :

a) Mandrel design for Injection blow moulds.

b) Calculation of clamp pressure and ram pressure in compression moulding.

Q.38 Write short note on :

a) Polymer melt flow

b) Pot capacity for transfer moulds.

6th Sem / Branch : 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 Following are the types of compression mould

a) Flash

b) Horizontal semi-positive

c) Vertical semi-positive

d) All of them

Q.2 Material are removed with the help of electric spark in.

a) EDM b) Milling

c) Lathe d) Buffing

Q.3 Which moulding process consists of sprue, runner and gate ?

a) Automatic Compression moulding

b) Transfer moulding

c) Hand Compression Moulding

d) Rotational Moulding

Q.4 Following are the types of Transfer mould.

a) Pot type b) Auxiliary ram type

c) Loose plate d) All above

Q.5 Which type of product is produced by blow moulding process?

a) Solid Pin b) Bush

c) Bottle d) Pipe

Q.6 Which die enables molten polymers to enter from extruder to die from sideways?

a) Side feed die b) Spider die

c) Spiral mandrel type d) Bottom feed die

Q.7 Plastic wires can be produce by using _____.

a) Cross head die b) Offset die

c) Inline die d) None of these

Q.8 What is the remedy for short shot defect in compression moulding process?

a) Increase charge weight

b) Decrease mould closing speed

c) Increase mould temperature

d) Reduce breathing time

Q.9 What is function of mould runner?

a) Vent trapped air

b) Provide entry into the mould cavity

c) Define mould parting line

d) Provide path to the mould gates.

Q.10 Which type of product is produced by blow moulding process?

a) Solid pin b) Bush

c) Bottle d) Pipe

SECTION-B

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

Q.11 Define function of sprue bush.

Q.12 _____can be modified from its normal concentric tubular shape?

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

Q.14 Tab 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 Mould closing and opening depends on size of the component. (True/False)

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

Q.18 Give two functions of band heaters..

Q.19 _____die is used for wire coating.

Q.20 _____process is associated with breathing.

SECTION-C

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

Q.21 Discuss semi positive compression mould

Q.22 Define pinch off and its importance

Q.23 Discuss neck design for blow moulds

Q.24 Give advantages of plunger transfer mould

Q.25 Explain various materials for blow moulds.

Q.26 Explain die land and die swell.