Q.29 Explain blow mold in details.

Q.30 What do you mean by die geometry.

Q.31 What is mold cooling and why is necessary.

Q.32 Draw a neat sketch of straight through dies.

Q.33 Define & Draw a neat sketch of compression mold.

Q.34 Explain the construction of die for flexible tube in details.

Q.35 Write a detailed note on cavity design for blow molds.

SECTION-D

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

Q.36 Explain heating system and temperature control of dies.

Q.37 Explain principle of transfer molding and draw design of sprue, runner and gate of transfer mold.

Q.38 With neat sketch design of multi-impression compression mold.

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6th Sem / Branch : Plastic Chem. Engg.
(Spl. Polymer Tech.)
Sub.: Design of Dies & Moulds - 2

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Function of breaker plate is/are
- a) To filtrate melted materials
- b) To Maintain Pressure
- c) To Remove Contamination
- d) All of these

Q.2 Flash is a
- a) Excess melt material from mold
- b) Part of machine
- c) None of these
- d) All of these

Q.3 Where does the granular/ powder molding material get loaded into
- a) Hopper b) Barrel
- c) Heaters d) None of these

Q.4 Which of the following processes of molding are used for bottles
- a) Injection molding b) Blow molding
- c) Transfer molding d) Extrusion molding

Q.5 Which term is not a part of feed system in mold

a) Runner b) Sprue

c) Gate d) Ejector plate

Q.6 The insert are securely fitted into holes in a separate steel plate which is called

a) Ribs b) Bolster

c) Splits d) None of these

Q.7 Function of O Ring

a) Mold leakage protection

b) Alignment of mold

c) Both A & B

d) None of these

Q.8 Cull is formed in

a) Injection molding b) Blow molding

c) Transfer molding d) Compression molding

Q.9 Splits are used in

a) Advance injection molding

b) Blow molding

c) Transfer molding

d) Casting

Q.10 Parision is formed in which molding

a) Injection molding b) Blow molding

c) Transfer molding d) Compression molding

SECTION-B

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

Q.11 Define Die.

Q.12 What is compression mold.

Q.13 Define perform.

Q.14 What do you mean of sprue.

Q.15 Define breathing.

Q.16 Define preheating of materials.

Q.17 What spider.

Q.18 What is back pressure.

Q.19 Define breaker plate.

Q.20 Write function of screen pack.

SECTION-C

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

Q.21 What do you understand by runner balancing.

Q.22 Write a short note on pinch off design.

Q.23 State four general features of extrusion die.

Q.24 What do you mean by cleaning of dies.

Q.25 What is need of mold cooling.

Q.26 Explain any two gate with neat sketch.

Q.27 Draw sketch of die for rod.

Q.28 How will you calculate clamp pressure of compression mold.