Q.25 Explain relation between screen pack and breaker plate.

Q.26 Explain extruder performance their curves.

Q.27 Explain importance of "Nip rolls".

Q.28 Explain different types of screw and their importance.

Q.29 Give four defects and remedies of Blow moulding process.

Q.30 Give five defects of extrusion process.

Q.31 Give advantages of Stretch blow molding.

Q.32 Explain basic principle of blow moulding.

Q.33 Discuss Wood- plastic laminates.

Q.34 Explain Take-off devices used in extrusion.

Q.35 Discuss bubble casing.

SECTION-D

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

Q.36 Explain principle, construction and working blow moulding machine neat sketch.

Q.37 Explain :

a) Twin screw extruder

b) Advantages and disadvantages of multilayer packaging.

Q.38 Discuss flow line diagram of wire and cable coating with neat sketch.

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Plastic Engineering
Subject:- Plastic Processing Techniques - II

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 A Parison can be_____.

a) Extruded

b) injection molded

c) Extruded & injection molded

d) Compression molded

Q.2 The polymer material is fed into the extruder through the_____.

a) Barrel b) Hopper

c) Screw d) Die

Q.3 A blow mould consists of _____.

a) One male half

b) Two female halves

c) One male and one female half

d) Two male halves

Q.4 The gauge pressure of air used to inflate parison is

between_____.

a) 40-150 psi b) 250-300 psi

c) 40-150 psi d) 250-300 psi

Q.5 The part weight is directly proportional to the_____ of the component.

a) Shrinkage b) Warpage

c) Wall thickness d) Bend

Q.6 The plastic is first melted and extruded as hollow tube called_____.

a) Mandrel b) Parison

c) Pipe d) Screw

Q.7 If the screw temperature does not reach the set value, the_____ must be replaced.

a) Micrometer b) Thermocouple

c) Ammeter d) Thermometer

Q.8 _____enhances mixing of the material.

a) Twin screw extruder b) Single screw extruder

c) Hand extruder d) Barrel

Q.9 In compression zone_____ takes place.

a) Pumping b) Feeding

c) Drying d) Plasticizing

Q.10 _____ helps bring the feedstock into the extruder

a) Extruder screw b) Motor

c) Die d) Barrel

SECTION-B

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

Q.11 Name two examples of paper-plastic laminates.

Q.12 What happens when the set temperature is low?

Q.13 Distance between consecutive flights is called a _____.

Q.14 Name two dies used in extrusion process.

Q.15 The portion of screw, which prevents the escape of the material, is known as_____.

Q.16 Name various materials used in multi layer packaging.

Q.17 In Extrusion process, cross section of the product at any point is _____.

Q.18 Define breaker plate.

Q.19 Expand ISBM.

Q.20 Define Screen packs.

SECTION-C

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

Q.21 Define perform in blow moulding process.

Q.22 Discuss parison programming and its importance.

Q.23 Discuss applications and importance of metal - plastic laminates.

Q.24 Explain draw down ratio.