Q.30 Explain orientation of fibers and their effect in textile industries.

Q.31 Discuss four defects and their remedies in blow moulding process.

Q.32 Explain various dies and their application in extrusion process.

Q.33 Explain difference between injection and extrusion blow moulding.

Q.34 Explain lost core injection moulding process.

Q.35 Discuss at least five trouble shootings of injection moulding process.

Section-D

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

Q.36 Explain Reaction injection moulding process in detail, with suitable diagram.

Q.37 Explain injection stretch blow moulding process and its types.

Q.38 Discuss :

a) Gas assisted injection moulding technique.

B) Multi layer blow film process.

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6th Sem,

Branch : Plastic Engineering

Subject : Plastic Processing Techniques-IV

Time : 3 Hrs. **M.M. : 100**

SECTION-A

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

Q.1 "Plexi-glas' becase of its high optical transparency is used for making lenses. It is chemically_____.

a) Poly-methyl methacrylate (PMM)

b) Poly tetra-fluro ethylene (PTFE)\

c) Polycarbonates

d) Phenolic resins

Q.2 _____ is normally used for the manufacture of refrigerator components and transistor parts.

a) Polypropylene b) ABS

c) Polyester d) Poly Urethane

Q.3 Acrilan fibers used for making cloth, carpet & blankets, which is a hard, horny & high melting polymeric material is nothing but_____.

a) Poly acrylonitrile b) Polyamides

c) Saturated Polyester d) Poly Urethane

Q.4 The process involved in converting rubber into a thin sheet or coating it on fabric is called

a) Extrusion b) Calendaring

c) Vulcanization d) None of these

Q.5 The correct sequence of sections in extrusion moulding machine is :

a) Feed section - Compression section - Metering section

b) Feed section - Metering section - Compression section

c) Compression section - Feed section - Metering section

d) Metering section - Feed section - Compression section

Q.6 Pressure used in IBM ranges from _____

a) 2000 - 3000 psi b) 100 - 500 psi

c) 500 - 800 psi d) 25 - 150 psi

Q.7 _____ is a process, which combine layers of two or more plastics together at a point of extrusion.

a) Laminating b) Plating

c) Co extrusion d) Calendaring

Q.8 Which of the following equipment is used for controlling the temperature of molten plastic in the extrusion process?

a) Thermo resister b) Thermometer

c) Thermocouple d) Glass tube

Q.9 Which of the following is an application of Stretch blow molding process?

a) Toy bodies b) Door liners

c) Bottles d) Pipes

Q.10 What is the name of called the maximum weight of plastic can be injected by single product?

a) Short weight b) Moulding cycle

c) Capacity d) Injection speed

Section-B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

Q.11 GAIM stands for _____.

Q.12 Give applications of GAIM.

Q.13 Name two advantages of multilayer packaging.

Q.14 _____ is a heat sensitive polymer. (PTFE/PVC)

Q.15 _____ is nominal blow up ratio for film?

Q.16 Which machine is used for wire coating?

Q.17 Which process makes corrugated carton?

Q.18 Where the screen pack is placed in extruder?

Q.19 The maximum weight of plastic that can be injected by single shot is knows as _____.

Q.20 Name two materials used in multi Layer packaging.

Section-C

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

Q.21 Briefly explain two colour injection mouldin process.

Q.22 Explain plastic plastic laminates.

Q.23 Discuss the importance of robotics in plastic industries.

Q.24 Discuss advantages of multilayer packaging.

Q.25 Explain Low pressure foam moulding.

Q.26 Discuss co-extrusion of sheets.

Q.27 Discuss Process optimization and its importance.

Q.28 Explain sandwich foam moulding.

Q.29 Write short note on Dry spinning process.