Q.26 Discuss Reaction injection mounding with suitable diagram.

Q.27 Discuss advantage of multilayer packaging.

Q.28 Discuss Sandwich moulding.

Q.29 Discuss advantage of multilayer blown film extrusion.

Q.30 Explain lost core injection moulding process.

Q.31 Explain plastic paper laminates with suitable example.

Q.32 Discuss atleast five trouble shooting in injection moulding.

Q.33 Explain manufacturing process of corrugated sheets.

Q.34 Write short notes on melt spinning process.

Q.35 Discuss Importance of fiber orientation in different stages of textile processing.

SECTION-D

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

Q.36 Discuss working process of profile extrusion with suitable diagram and explain its advantage.

Q.37 Discuss different types of blow moulding processes and explain multilayer blow moulding.

Q.38 Discuss-

a) Gas assisted injection moulding

b) Water assisted injection moulding

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6th Sem / Branch : Plastic Engineering

Subject:- Plastic Processing Techniques-IV

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which component of a two-color injection molding machine is responsible for the two different plastic materials?

a) Extruder b) Mold cavity

c) Ejector pins d) Cooling system

Q.2 In co-extrusion, how are the individual layers of plastic joined together?

a) By using adhesive materials

b) By using mechanical fasteners

c) By melting the layers together at their interfaces

d) By cooling the layers and pressing them together

Q.3 Calendering is mostly suited for making _____

a) ABS b) PS

c) PVC d) UF

Q.4 WAIM stands for _____

a) Water associated injection moulding

b) Water assisted injectionmoulding

c) Water assisted intrinsic moulding

d) none

Q.5 Melting section is another name for which section in extrusion

a) Feed section b) Transition section
c) Pumping section d) Collapse section

Q.6 Which of the following equipments is used for controlling the temperature of molten plastic in the extrusion process?

a) Window resistor b) Thermometer
c) Thermocouple d) Glass tube

Q.7 _____ is the function of tie bar?

a) Platen movement
b) Melting
c) To shape of the product
d) Trimming

Q.8 _____ is the primary application of melt spinning.

a) Producing flat sheets of polymers
b) Creating three-dimensional plastic structures
c) Manufacturing intricate polymer shapes
d) Producing continuous polymer fibers

Q.9 _____ is the typical gas used in Gas Assisted Injection Molding?

a) Oxygen b) Nitrogen
c) Helium d) Carbon dioxide

Q.10 _____ is the primary purpose of the corrugated pattern in corrugated plastic sheets?

a) To reduce the weight of the sheet
b) To make the sheet more transparent
c) To add strength and rigidity to the sheet
d) To increase the flexibility of the sheet

SECTION-B

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

Q.11 Give two disadvantages of gas injection moulding.

Q.12 Name two examples of metal-plastic laminates.

Q.13 The maximum weight of plastic that can be injected by single shot is known as?

Q.14 Write advantages of thin wall Injection moulding.

Q.15 Name any two materials which can be used in profile extrusion.

Q.16 Write two advantages of multilayer packaging.

Q.17 Name two plastic materials used in textile industry.

Q.18 Define lamination.

Q.19 What is Needle punching?

Q.20 In dry spinning, what is the purpose of the solvent used in the polymer solution?

SECTION-C

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

Q.21 Discuss all electric injection moulding machine.

Q.22 Explain two color injection moulding process.

Q.23 Explain Extrusion stretch blow moulding.

Q.24 Discuss advantage of post treatment of fibres in textile processing.

Q.25 Explain Low pressure foam moulding.