

- Q.28 How multiple blown films are manufactured write process.
- Q.29 What is fiber spinning process write its three applications.
- Q.30 Expand and define SFM. Write its most prominent area of application.
- Q.31 Write the area of application of robotics in any two plastics industries.
- Q.32 With a sketch. Write down the process of making multilayer blow moulded articles.
- Q.33 Write down five application of polymers in Textile industry.
- Q.34 With a neat sketch, write a note on haul off unit.
- Q.35 With five reasons. Write why multilayer packaging is used.

SECTION-D

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

- Q.36 With a neat and labeled diagram. Write the extrusion coating process to make metal plastics Laminates.
- Q.37 With a neat and labeled diagram, write the process of Gas assist Injection Moulding.
- Q.38 With a neat and labeled diagram, write the prices of extrusion for making corrugated sheets.

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**6th Sem / Branch : Plastics Technology
Sub.: Plastic Processing Techniques-IV**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Shot weight of injection moulding machine should be _____ short capacity.
 a) Less than b) Equal to
 c) More than d) Equal to or less than
- Q.2 Poly urethane foam for making shoe soles should have
 a) Light amount of cross linking
 b) medium amount Cross linking
 c) High amount of cross linking
 d) No amount of cross linking
- Q.3 The major area of application of Metal Plastics Laminates is
 a) House hold b) Machine parts
 c) Packaging d) Automobiles
- Q.4 CBA are
 a) Organic in nature b) Inorganic in nature
 c) Both A & B d) Neither A nor B
- Q.5 Metal rolls are not used in which of following process

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- a) Blown film b) Extrusion
 c) Injection Moulding d) Calendering
 Q.6 Draw down ratio is the term used, with which of following process
 a) Injection moulding b) Extrusion
 c) Roto moulding d) Vacuum forming
 Q.7 The units of Extruder output are
 a) m/s b) kg/m
 c) kg/hr d) Km/hr
 Q.8 The shot capacities of all injection moulding machines are based on which of following materials
 a) PVC b) PE
 c) PMMA d) PS
 Q.9 One of the moieties, used to make PU foams is
 a) Phosgene gas
 b) BPA
 c) Toulene Di isocynates
 d) Terphthalic acid
 Q.10 Lost core injection moulding technique is used to make
 a) Simple shapes b) Very complex shapes
 c) Solid shapes d) Co extruded products

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Write two applications of sandwich moulding.
 Q.12 Define plastisol.

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- Q.13 Thin walled injection moulding product formation requires very low pressure (T/F)
 Q.14 Define CBA.
 Q.15 Define casting process.
 Q.16 The steering wheel of Tractor is made by which injection Moulding Technique.
 Q.17 Give two advantages of all electric injection moulding machine.
 Q.18 Where grinding wheels are used in Extrusion Process.
 Q.19 Expand RIM.
 Q.20 Define Laminates.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Write a process of making sheets with diagram.
 Q.22 With a sketch, write a short note on collapsing frames.
 Q.23 Write down the chemistry of RIM process.
 Q.24 Write down five applications of metal plastics Laminates.
 Q.25 With a neat sketch, write down low pressure process of foam making.
 Q.26 What are rolling devices in film processing technique. Define each.
 Q.27 With mathematical formulae involved write down a note on extruder output.

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