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5th Sem.
Branch : Ceramic
Subject : Glass Technology-II

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

Q.1 Solar glass in primarily used for _____?

a) Building windows b) Solar panels

c) Automotive glass d) Decorative purposes

Q.2 Annealing is the process of removal _____from glass.

a) Density b) Viscosity

c) CTE d) Strain

Q.3 _____ is used to increase viscosity of glass.

a) Alumina b) Silica

c) Sodium oxide d) Chromium oxide

Q.4 Borosilicate glass is commonly used in which of the following applications?

a) Windows b) Laboratory glassware

c) Light bulbs d) Insulation

Q.5 What is the process of heating glass to a high temperature to increase its strength called?

a) Annealing b) Tempering

c) Casting d) Blowing

Q.6 What is the main environmental concern related to glass production?

a) Air pollution b) Water usage

c) Energy consumption d) Waste generation

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Viscosity of molten glass decreases with _____ temperature. (Decreasing/Increasing)

Q.8 Fiber glass is use for heat insulation. (True/False)

Q.9 Safety glass is used in automobiles. (True/False)

Q.10 Water also attack on glass. (True/False)

Q.11 _____ is commonly used to cut glass? (Hacksaw / Diamond cutter)

Q.12 Heat absorbing glasses are commonly used in _____. (Automobile windows / Solar panels)

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

Q.13 Explain the concept of glassy state.

Q.14 Describe the refractories used in glass tank furnace.

Q.15 Explain the glass toughening process.

Q.16 Explain the concept of de-colourisation of glass.

Q.17 Explain process of annealing.

Q.18 Explain how strain in detected?

Q.19 Explain the importance of solar energy.

Q.20 Describe the manufacturing of fiber glass.

Q.21 Explain in brief manufacturing of safety glass.

Q.22 Explain how viscosity of glass is determined?

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)

Q.23 Explain various glass decoration methods.

Q.24 Describe the process of density measurement of glass.

Q25 Explain type of pollution and its controlling measures in glass industry.