

- Q.24 Discuss two defects of glass.
- Q.25 Enlist properties of glass-ceramics.
- Q.26 Explain refining of glass.
- Q.27 Write about any three colourant of glass.
- Q.28 Explain safety glass.
- Q.29 How annealing of glass is carried out? Explain in brief.
- Q.30 Discuss thermal expansion property of glass.
- Q.31 List methods of glass working.
- Q.32 Explain determination of density of glass.
- Q.33 Explain blowing process of glass making.
- Q.34 Explain effect of composition on glass manufacturing.
- Q.35 Explain the methods used for pollution control in glass industry?

#### SECTION-D

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

- Q.36 Explain the manufacturing method of glass working by Fourcault process.
- Q.37 Explain different types of defects in glass. How these can be prevented?
- Q.38 Define strain. Explain temporary and permanent strain of glass.

No. of Printed Pages : 4

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### 5th Sem / Ceramic Subject:- Glass Technology - II

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Which of the following is not a process involved in glass production?
- a) Extrusion                      b) Forming and shaping
- c) Heat treatment              d) Finishing
- Q.2 TQM stands for
- a) Total quality manager
- b) Total quality managing
- c) Total quality management
- d) Total qualify management
- Q.3 Which method of forming cannot be used to produce sheet glass?
- a) Floating                      b) Rolling
- c) Drawing                      d) Casting
- Q.4 Refining is the process of removal \_\_\_\_\_ from glass melt.
- a) Bubbles                      b) Stress
- c) Strain                      d) Colour

(20)

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- Q.5 Blisters and seeds are \_\_\_\_\_ in glass.
- a) Colour                      b) Air bubble  
c) Black spot                d) Stress
- Q.6 Most commercial glasses consist of
- a) Lime                        b) Soda  
c) Silica                      d) All
- Q.7 Which is a method of manufacturing flat glass?
- a) Float batch                b) Fourcault process  
c) Jiggering                  d) None
- Q.8 Which of the following is not the defect of glass?
- a) Knots                      b) Stones  
c) Pin holes                  d) Cords
- Q.9 The full form of SQC is
- a) Soil Quality Control  
b) Soil Quantity Control  
c) Statistical Quality Control  
d) Statistical Quantity Control
- Q.10 The temperature at which internal strain in glass is relieved is known as
- a) Annealing point        b) Softening point  
c) Strain point                d) None

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## SECTION-B

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

- Q.11 Sheet glass is also called as flat glass. (True/False)
- Q.12 Formula of cobalt oxide is \_\_\_\_\_.
- Q.13 Tempered glass is stronger and more durable than regular glass sheets and plate glass. (True/False)
- Q.14 Gob feeder is an automatic glass making machine which is used to collect lump or gob hot glass. (True/False)
- Q.15 Safety glass is used in automobiles. (True/False)
- Q.16 Glass is an inorganic product of fusion cooled to rigid condition with crystallization. (True/False)
- Q.17 Water also attacks attack on glass. (True/False)
- Q.18 Stones in glass can be prevented by reducing size of high melting point raw materials. (True/False)
- Q.19 ISO stands for \_\_\_\_\_.
- Q.20 Heat resistance glass is a type of glass that is designed to resist thermal shock. (True/False)

## SECTION-C

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

- Q.21 What is role of viscosity in glass?
- Q.22 Explain acid attack on glass.
- Q.23 Name any five colouring oxides used in glass and colour imparted by them.

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