

Q.21 What is cullet? Describe function of cullet in glass.

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Q.22 Explain in detail melting process of glass.

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### Section-D

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

Q.23 Explain glass tank furnace and its various parts.

Time : 3 Hrs.

M.M. : 60

Q.24 Write a short note on (1) Regenerator and (2) Recuperator.

Q25 Describe colburn process of flat glass making.

**Note: Multi choice Questions. All Questions are compulsory. (6x1=6)**

Q.1 Broken glass piece used in tank furnace for the manufacturing of glass is known as

- a) Grog
- b) Wood
- c) Pallet
- d) Cullet

Q.2 Which of these is network formers oxide?

- a)  $B_2O_3$
- b)  $SiO_2$
- c)  $Al_2O_3$
- d)  $Na_2O$

Q.3 Which of the following furnace is used in the melting of glass \_\_\_\_\_.

- a) Kiln
- b) Dryier
- c) Crown
- d) Tank furnace

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(1)

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**Sem. 4th  
Branch : Ceramic Engg.  
Subject : Glass Technology - I**

- Q.4 Primary components of glass batch is \_\_\_\_\_.  
a) Crystal                    b) Sand  
c) Silica                    d) Limestone
- Q.5 Which method of forming cannot be used to produce sheet glass?  
a) Floating                    b) Rolling  
c) Drawing                    d) Casting
- Q.6 Lead glasses are used for ?  
a) Kitchenware  
b) Optical Components  
c) Electronic tubes  
d) Temperature thermometers

### Section-B

**Note:** Very short answer type questions. All questions are compulsory.  $(6 \times 1 = 6)$

- Q.7 Glass has sharp melting point. (True/False)
- Q.8 Fourcault is a machine which is used to make sheet glass. (True/False)

- Q.9 Alumina increases devitrification tendency of glass.  
(True/False)
- Q.10 Hardness of glass can be measured by Moh's scale.  
(True/False)
- Q.11 Water also attack on glass. (True/False)
- Q.12 Safely glass is used in automobiles. (True/False)

### Section-C

**Note:** Short answer type Question. Attempt any eight questions out of Ten Questions.  $(8 \times 4 = 32)$

- Q.13 Define Glass former and glass modifier with examples.
- Q.14 Define glass and write types of glass.
- Q.15 Explain handling and mixing process of glass batch.
- Q.16 Describe function of  $\text{Al}_2\text{O}_3$ ,  $\text{CaO}$  and  $\text{PbO}$  in glass.
- Q.17 Write down short note on Oxidizing agent.
- Q.18 Write down short note on annealing process.
- Q.19 Explain different raw materials used in glass industry.
- Q.20 Explain function of Fluxing oxide in glass with example.