Q.18 Explain Grog.

Q.19 Explain ceramic fibrer.

Q.20 List the uses of carbon refractory.

Q.21 Differentiate between acid refractories and basic refractories.

Q.22 Discuss glass wool.

SECTION-D

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

Q.23 Describe the testing method of determination apparent porosity of a given sample of refractory.

Q.24 Describe the classification of refractories with example in detail.

Q. 25 Explain the manufacturing process of fire clay refractory and also list the properties and uses of it.

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4th Semester/ Ceramic
Subject : Refractory Technology

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Insulation is related with _____.

a) High density b) High specific gravity

c) High porosity d) None

Q.2 Acid refractories are not attacked by

a) Basic Slag b) Acid slag

c) Magnesite d) None

Q.3 Refractoriness is related with

a) Permeability b) PCE

c) CCS d) Bulk Density

Q.4 The C.C.S. stands for

a) Cool crushing strength

b) Cold crushing strength

c) Cold brushing strength

d) None

Q.5 Zirconium found in Kerala as _____.

a) Beach sand b) Quartzite

c) Silica sand d) None

Q.6 Chemical formula of magnesium carbonate is _____.

a) $MgCA_3$ b) $MgCO_3$

c) $MnCO_3$ d) $MkCO_3$

SECTION-B

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

Q.7 Monolithic means single layer. (True/False)

Q.8 The main purpose of using Refractory material to retain heat in furnace. (True/False)

Q.9 Porosity of insulating refractory brick should be low. (True/False)

Q.10 Dolomite refractories are basic in nature. (True/False)

Q.11 Mullite refractories are _____ refractory.

Q.12 Silica phase diagram is two component system. (True/False)

SECTION-C

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

Q.13 Explain basic refractories.

Q.14 Explain preparation of magnesite.

Q.15 Discuss fire clay.

Q.16 Discuss sillimanite.

Q.17 Discuss chromites refractories.