No. of Printed Pages : 4
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220444

4th Sem. / Ceramic Engineering
Subject : Refractory Technology

Time : 3 Hrs. M.M. : 60

SECTION-A

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

Q.1 Refractories material can bear with _____.

a) Low temperature b) Very low temperature

c) High temperature d) None

Q.2 Examples of Basic refractory is

a) Fire clay refractory b) Silica refractory

c) Alumina refractory d) Magnesite refractory

Q.3 Porosity deals with _____.

a) Pores b) Grog

c) Silica d) Alumina

Q.4 In which test we determine the strength of refractory

a) Permeability b) PCE

c) CCS d) Bulk Density

Q.5 RUL stands for _____.

a) Refractories Under Load

b) Refractoriness Under Load

c) Refractoriness Un Load

d) Refractoriness Upsr Load

Q.6 Insulation is related with _____.

a) High density b) High specific gravity

c) High porosity d) None

Section-B

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

Q.7 Dolomite refractories are basic in nature. (True/False)

Q.8 RUL test determines the _____of refractories.

Q.9 Silica content in silica refractory can be as high as _____percent.

Q.10 Monolithic means multiple layer. (True/False)

Q.11 Alumina-silica phase diagram is two component system. (True/False)

Q.12 PLC means _____.

Section-C

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

Q.13 Explain refractory.

Q.14 Explain porosity.

Q.15 Discuss acid refractories.

Q.16 Explain Permeability.

Q.17 Discuss Sillimanite.

Q.18 Explain phase diagram.

Q.19 Explain special refractories.

Q.20 Discuss ceramic fibre.

Q.21 List the advantage of monolithic refractory over shaped refractory.

Q.22 Explain slag and acid resistance.

Section-D

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

Q.23 Explain the manufacturing process of Carbon refractory and also list the properties and uses of it.

Q.24 Describe the AL_2O_3-SiO_2 phase diagram with help of neat sketch.

Q25 Describe the testing method of determination of refractoriness of a given sample of refractory.