

220431

Time : 3 Hrs.

M.M. : 60

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

- (60)

(4)

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(1)

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- Q.5 Purpose of fritting is to convert _____.
 a) Soluble raw materials into insoluble form.
 b) Fine raw materials into bulky form
 c) Toxic raw materials in to less toxic or non toxic form.
 d) All of these
- Q.6 Which of the following is industrial waste material which is used as raw material in ceramic industry.
 a) Fly Ash b) Blast Furnace slag.
 c) Grog d) All of the above

SECTION-B

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

- Q.7 Feldspar is a flux material. (True/False)
 Q.8 Formula of clay is $Al_2O_3 \cdot 2SiO_2 \cdot 2H_2O$. (True/False)
 Q.9 Ball clay is _____ plastic raw materials in comparision to China clay. (More/Less)
 Q.10 The formula of sand is _____ (SiO_2/CaO_2)
 Q.11 Quartz is one of the raw materials of silica used in body.. (True/False)
 Q.12 _____ is the industrial waste material used as raw material in Ceramic Industry. (Flyash/Quartz)

SECTION-C

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

- Q.13 Define residual and transported clays.
 Q.14 Explain benefication of clay.
 Q.15 Write properties and uses of Steatite.
 Q.16 List properties and uses of Feldspar.
 Q.17 Explain role of flux in Ceramic Industry.
 Q.18 Write role of binder and lubricants in Ceramic Industry.
 Q.19 Write sources of Alumina.
 Q.20 Name four synthetic raw materials.
 Q.21 Write properties and uses of Kyanite.
 Q.22 Define Pumic ash.

SECTION-D

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

- Q.23 Explain frit making process.
 Q.24 Name different types of clays. Write properties and uses..
 Q.25 Name different types of processing additives. Write types and role of each additive.