

3rd Sem./ Ceramic
Sub : Ceramic Raw Materials

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Feldspar is example _____ material
a) Fluxing b) Plastic
c) Lubricant d) None of these
- Q.2 The feldspar in body ____ the maturing temperature.
a) Decreases b) Increase
c) No change d) None of these
- Q.3 Talc is example of _____ material.
a) Plastic b) Non clay plastic
c) Binder d) None of these
- Q.4 Formula of Kynite is _____
a) $Al_2O_3SiO_2$ b) $Al_2O_32SiO_22H_2O$
c) $2SiO_22H_2O$ d) None of these

Q.5 _____ is one example of colouring oxide used in glaze

- a) Cobalt oxide b) Ball clay
c) China clay d) All of these

Q.6 Frit making process involves _____

- a) Raw material mixing b) Smelting
c) Quenching d) All of these

SECTION-B

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

Q.7 The formula of Clay is $Al_2O_3MgO_2$. (True / False)

Q.8 Fritting is done to convert fine materials in to bulky form. (True / False)

Q.9 Steatite mineral is very _____. (Hard / Soft)

Q.10 The formula of quartz is SiO_2 . (True/False)

Q.11 Cornish stone is _____ raw material. (Fluxing / Deflocculant)

Q.12 Lubricants are used to _____ friction between ceramic powder and metal dies. (Increase / Decrease)

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SECTION-C

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

Q.13 Explain transported clays.

Q.14 Discuss theory of plasticity.

Q.15 Name any four different type of additives.

Q.16 Write properties and uses of feldspar.

Q.17 Write properties and uses of bone ash.

Q.18 Write role of deflocculants in slip.

Q.19 Draw process flow diagram of frit making.

Q.20 Name non clay plastic raw materials. Explain any one.

Q.21 Write properties and uses of sillimanite.

Q.22 Write name different industrial waste raw materials. Explain utilization of any one.

SECTION-D

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

Q.23 Name different type of clays. Write its properties and uses.

Q.24 Explain non clay plastic raw materials with properties and uses.

Q.25 Write properties, uses of mullite and andalusite.

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