

## **SECTION-D**

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

- Q.23 Define flux. Name different fluxes. Write role of flux in ceramic manufacturing.
- Q.24 Explain non clay plastic raw materials with properties and uses.
- Q.25 Explain benefications and purification of clays. Explain its properties.

No. of Printed Pages : 4

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220431

**3rd Sem / Ceramic**

**Subject : 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 of \_\_\_\_\_ material

- a) Fluxing
- b) Plastic
- c) Both A and B
- d) None of these

Q.2 The potash feldspar in body \_\_\_\_\_ the maturing temperature.

- a) Decreases
- b) Does not effect
- c) Increases
- d) Can not say

Q.3 Talc is example of \_\_\_\_\_ material.

- a) Plastic
- b) Non plastic
- c) Binder
- d) None of these

Q.4 Formula of china clay is

- a)  $\text{Al}_2\text{O}_3\text{H}_2\text{O}$
- b)  $\text{Al}_2\text{O}_3\text{SiO}_2\text{H}_2\text{O}$
- c)  $2\text{SiO}_2\cdot 2\text{H}_2\text{O}$
- 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) Bentonite

Q.6 Example of non clay plastic raw material is

- a) Feldspar
- b) Clay
- c) Bentonite
- d) Talc

## SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory.  $(6 \times 1 = 6)$

Q.7 The formula of Kyanite is \_\_\_\_\_.

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

Q.9 Talc mineral is very \_\_\_\_\_. (Hard/soft)

Q.10 The formula of soda feldspar is \_\_\_\_\_.

Q.11 Nepheline syenite is \_\_\_\_\_ raw material. (Flux / deflocculant)

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

## SECTION-C

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

Q.13 Explain geology of clays.

Q.14 Discuss theory of plasticity.

Q.15 Write purpose of fritting.

Q.16 Write properties and uses of feldspar.

Q.17 Name steps of making frit. Explain any one.

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 kyanite.

Q.22 Name different raw materials of silica. Write its role.