

## **SECTION-D**

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

Q.23 Name and explain stages of pressing with diagram.

Q.24 Explain glaze department production controls of tile industry.

Q.25 How will you make plaster of paris moulds? Explain.

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220445B

**4th Sem / Ceramic Engg**

**Subject : Ceramic Processing Technology**

Time : 3 Hrs.

M.M. : 60

## **SECTION-A**

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

Q.1 The physical state of body in case of slip casting is

- a) Fluid suspension (Slip)
- b) Powder
- c) Dry powder
- d) Plastic mass

Q.2 \_\_\_\_\_ is first stage during pressing of tile.

- a) Compacting
- b) Ejection
- c) Filing of die
- d) All at same time

Q.3 With increase in pressing pressure the green density of tile \_\_\_\_\_

- a) Decreases
- b) Increases
- c) Remain same
- d) First increases then decreases

Q.4 Ford cup is used to determine \_\_\_\_\_ of slip.

- a) Viscosity
- b) Density
- c) Specific gravity
- d) All of these

Q.5 \_\_\_\_\_ is binder used in ceramic bodies.

- a) Zinc stearate
- b) Silica
- c) Alumina
- d) Poly vinyl Alcohol

Q.6 In double acting press, pressing takes place from \_\_\_\_\_ sides.

- a) Two
- b) One
- c) All
- d) None of these

### SECTION-B

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

Q.7 Approximate moisture content in dry pressing is \_\_\_\_\_ (0-5%,25-50%)

Q.8 Sodium silicate is used as \_\_\_\_\_ in slip.  
(Defloculant/Lubricant)

Q.9 Tape casting method is also known as Doctor's Blade process. (True/False)

Q.10 Lubricants helps to reduce friction between ceramic particles and die. (True/False)

Q.11 Iso static pressing gives \_\_\_\_\_ density variation. (Least/Highest)

Q.12 The difference in weight of tile before and after glazing can be used to know applied weight of glaze. (True/False)

### SECTION-C

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

Q.13 Explain slip casting process.

Q.14 Explain how green density changes with moulding pressure.

Q.15 Tell the role of lubricants and deflooculants.

Q.16 List steps used to mix plaster of paris and water for making slurry.

Q.17 Differentiate alpha and beta plaster.

Q.18 How will you measure density of slip?

Q.19 List four production controls of tile industry.

Q.20 How accidents can be avoided in ceramic industry.

Q.21 Name pollutant of gaseous emissions.

Q.22 How will you measure water absorption of tile?