

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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Roll No.

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 deflocculants.

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?