

Section-D

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

- Q.23 Explain slip casting in detail with diagram.
- Q.24 Explain body preparation department production control of tile industry.
- Q25 With the help of flow diagram explain making of plaster of Paris models.

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**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 In _____ process of shaping heaters are used to heat the mixed body.
- a) Pressing
 - b) Injecting moulding
 - c) Extrusion
 - d) Jiggering
- Q.2 The physical state of body in jolleying and jiggering process is
- a) Fluid suspension (Slip form)
 - b) Moist Powder
 - c) Dry Power
 - d) Plastic Mass
- Q.3 In isostatic pressing pressure is applied from _____ sides.
- a) Two
 - b) One
 - c) All
 - d) None of these

Q.4 Which of the following is the example of pressing machine?

- a) Screw
- b) Pug Mill
- c) Jigger
- d) Injection

Q.5 The ratio of the fill height (Die height) to _____ is known as Compaction ratio.

- a) Die height
- b) Punch height
- c) Compact height
- d) All of these

Q.6 In doctor's blade process thickness of sheet is controlled by adjusting:

- a) Height of the doctor blade above the plastic carrier sheet
- b) The carrier sheet speed
- c) Slurry viscosity
- d) All of these

Section-B

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

Q.7 Approximate moisture content in slip casting is _____. (0-5%, 25-50%)

Q.8 PVA is the example of. (Defloculant/Binder)

Q.9 In isostatic pressing flexible rubber bags are used. (True/False)

Q.10 Binders helps to increase strength of green piece. (True/False)

Q.11 Isostatic pressing gives _____ density variation. (Least/Highest)

Q.12 MOR control is carried out after pressing. (True/False)

Section-C

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

Q.13 Explain stages of pressing.

Q.14 Give names of properties that changes with temperature.

Q.15 Tell the role of binder. Write two characteristics.

Q.16 How will you mix plaster of paris and water?

Q.17 Differentiate alpha and beta plaster.

Q.18 How will you measure viscosity of slip?

Q.19 List four production controls of glaze department of tile industry.

Q.20 How will you measure applied weigh of glaze?

Q.21 Name pollutants of raw materials.

Q.22 How will you measure moisture content?