

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.
- Q.25 With the help of flow diagram explain making of plaster of Paris models.

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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 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 jollying 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 help 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 change 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 weight of glaze?
- Q.21 Name pollutants of raw materials.
- Q.22 How will you measure moisture content?