

- Q.22 In brief discuss injection moulding method of shaping ceramic ware.
- Q.23 Discuss Jiggering and Jolleying.
- Q.24 Explain slip casting in brief.
- Q.25 List properties that changes with change in moulding pressure.
- Q.26 Explain effect of pressure on green density.
- Q.27 Explain role of binders in ceramic shaping.
- Q.28 How you will measure moisture content of tile?
- Q.29 How slip density is determined during production controles in tile industry.
- Q.30 List production controls in body preparation department.
- Q.31 Explain in brief ways to avoid accidents in ceramic industry.
- Q.32 Name types of binders.
- Q.33 Explain in brief alpha and beta plaster of paris.
- Q.34 List pollutants in raw materials.
- Q.35 Write in brief ceramic laboratory hazards.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Define pressing. Explain stages of pressing operations.
- Q.37 Write and explain different steps used to make plaster of paris moulds.
- Q.38 Explain production controls used in glazing department.

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5th Sem / Ceramic Subject:- Ceramic Processing Technology

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 In slip casting physical state of body is _____.
a) Plastic mass b) Fluid Suspension
c) Dry powder d) Damp powder
- Q.2 In isostatic pressing pressure is applied from _____ sides.
a) All b) Top and Bottom
c) Top Only d) None of these
- Q.3 Ford cup is used to determine _____ of glaze slip.
a) Viscosity b) Strength
c) Applied weight d) Moisture
- Q.4 Which of the following is not Binder.
a) Polyvinyl Alcohol
b) Carboxy Methyl Cellulose
c) Starches
d) Sodium silicate
- Q.5 In tape casting the thickness of sheet is controlled by adjusting:
a) height of the doctor blade above the plastic carrier sheet.

- b) The carrier sheet speed
 - c) By adjustment of the slurry viscosity
 - d) All of these
- Q6 _____ pollutants are found in gaseous emissions?
- a) Solid particles of low melting fluxes
 - b) carbon mono oxide
 - c) Sulphur of fuel
 - d) All of the above
- Q.7 With increase in pressing pressure firing shrinkage of tile _____
- a) Increases
 - b) Decreases
 - c) Remain same
 - d) First increases then decreases
- Q8 Which of the following affect properties of finished wares
- a) Physical properties of raw material
 - b) Moulding pressure
 - c) Sintering or firing temperature
 - d) All of these
- Q.9 _____ include heating of mixed material.
- a) Pressing b) Jiggering
 - c) Injection Moulding d) Isostatic pressing
- Q.10 After ejection of shaped ware from die the size of floor tile _____
- a) Increases
 - b) Decreases
 - c) Remain same
 - d) First increases then decreases

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Doctor blade process is also called _____. (Solid casting/ Tape casting)
- Q.12 Lubricants are used to _____ between ceramic particles and die. (Decrease / Increase)
- Q.13 Beta plaster is prepared by calcinations in _____ atmosphere. (Damp/ Dry)
- Q.14 Crazing resistance is checked for finished product. (True/False)
- Q.15 While mixing of POP with water, POP is added in water (True/False)
- Q.16 The difference in weight of tile before and after glazing gives applied weight of glaze. (True/False)
- Q.17 Bag filters are used to remove _____ from gaseous emissions. (Dust/Poisonous gas)
- Q.18 Post pressing expansion means increase of tile after ejection from press. (True/False)
- Q.19 In double acting pressing pressure is applied from _____ sides. (Single side/ both side/ All side).
- Q.20 Binders are substances that improve the mechanical strength of green ceramic bodies. (True/False)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 List the steps used to mix plaster of paris and water.