

- 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) Moiture  
 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.

(20)

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- 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
- Q7** 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
- Q9** \_\_\_\_\_ include heating of mixed material.  
 a) Pressing                  b) Jigging  
 c) Injection Moulding    d) Isostatic pressing
- Q10** 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.