

- Q.28 Explain the concept of electrical double layer formation.
- Q.29 Explain how fired density changes with moulding pressure.
- Q.30 Explain in brief ways to avoid accidents in ceramic industry.
- Q.31 Explain upstream measures to reduce pollution in Ceramic industry.
- Q.32 Differentiate alpha and beta plaster of paris.
- Q.33 Explain tape casting process.
- Q.34 Explain iso-static pressing.
- Q.35 Explain pressing operation with diagram.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x10=20)

- Q.36 Define binders. Name its different types. Write its characteristics.
- Q.37 Write and explain different steps used to make plaster of paris moulds.
- Q.38 Name and explain production controls of finished ware.

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5th Sem., Branch : Ceramic Subject : Ceramic Processing Technology

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 In dust pressing the physical state of body is
a) Fluid suspension b) Plastic mass
c) Damp Powder d) None of these
- Q.2 Which of the following pressing machine have highest fabrication rate?
a) Rotary b) Hydraulic
c) Screw d) Injection
- Q.3 In iso-static pressing pressure is applied from _____ sides.
a) All b) Top and Bottom
c) Top d) None of these
- Q.4 Which of the following is NOT the example of binder?
a) Lignin b) Wax
c) PVA d) Quartz
- Q.5 Ford cup is used to determine _____ viscosity of glaze slip.
a) Circular b) Rectangular
c) Engler d) All of these

- Q.6 With increase in moulding pressure fired density _____.
 a) Increases
 b) Decreases
 c) Remain same
 d) First increase then decreases
- Q.7 PVA stands for
 a) poly vinyl Alcohol b) Poly vinyl Atco
 c) Pure Vinly Alcohol d) Pure Vinyl Atco
- Q.8 With increases in porosity, strength of ware _____.
 a) Increases
 b) Decreases
 c) Remain same
 d) First increases then decreases
- Q.9 Preservatives are added in
 a) Slip b) Dry powder
 c) Damp powder d) Organic hinders
- Q.10 After ejection of shaped ware from die the size of piece _____.
 a) Increases b) Decreases
 c) Remain same d) Same as that of die

Section-B

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

- Q.11 Binders are added in bodies having clay. (True/False)
- Q.12 In dust pressing of plastic materials _____ is usually added. (Binder/Water)

- Q.13 Poly vinly alcohol is used as _____.
 (Binder/Lubricant)
- Q.14 High density ceramics wear less than the same material at a lower density. (True/False)
- Q.15 Binders must easily burn out at low temperature. (True/False)
- Q.16 Doctor blade process is used to produce _____. (Thin sheets/ Floor tiles)
- Q.17 Lubricants are used to _____ between ceramic particles and die.
- Q.18 Compaction ratio is the ratio of fill room height to _____.
- Q.19 Crazing resistance is checked in green wares. (True/False)
- Q.20 To make pottery moulds _____ plaster is used. (Alaha, beta)

Section-C

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

- Q.21 Explain process of making POP models.
- Q.22 List steps to mix plaster of paris with water.
- Q.23 Explain injection moulding process.
- Q.24 Differentiate Preservatives and Lubricants.
- Q.25 How properties changes with temperature? Explain.
- Q.26 Explain how viscosity of slip or glaze is determined in production control.
- Q.27 Explain role of anti framing agents in ceramic Industry.