

- 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. $(2 \times 10 = 20)$

- 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. $(10 \times 1 = 10)$

- 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 binders

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

Q.13 Poly vinyl 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-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)

- ## Section-C

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