

- Q.22 List steps to measure density of slip.
 Q.23 Explain doctor blade process.
 Q.24 Discuss isostatic pressing.
 Q.25 Define foaming and de-foaming agents.
 Q.26 Explain how fired density changes with moulding pressure.
 Q.27 Explain development of electrical double layer.
 Q.28 Briefly explain how moulds are made.
 Q.29 Explain how viscosity of slip or glaze determined in production control.
 Q.30 Explain upstream measures to reduce pollution.
 Q.31 Write pollutants of glaze.
 Q.32 Write role of binders and lubricants.
 Q.33 Explain how firing shrinkage changes with pressure.
 Q.34 Write procedure of determining applied weight of glaze.
 Q.35 Explain characteristics if binder.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
 Q.36 Discuss in detail casting method of making hollow and solid wares.
 Q.37 Explain process of model making.
 Q.38 Explain production controls used in pressing department.

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5th Sem. / Ceramic Engg.

Subject:- Ceramic Processing Technology

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 In dry pressing of non-plastic material _____ is usually added.
 a) Methanol b) Ethanol
 c) Binder d) All of these
 Q.2 In case of pressing the physical state of body is
 a) Fluid suspension b) Plastic mass
 c) Damp powder d) Dry powder
 Q.3 Which of the following is not type of press?
 a) Toggle b) Tabletting
 c) Screw d) Injection
 Q.4 Which casting method DO NOT require use of plaster of paris moulds?
 a) Solid casting b) Hollow casting
 c) Tape casting d) All of these

- Q.5 During pressing, increase in moulding pressure results _____ green density.
 a) Increases
 b) Decreases
 c) Remain same
 d) First increases then decreases
- Q.6 Strength of tile _____ as the volume fraction of pores increases.
 a) Increases
 b) Decreases
 c) Remain same
 d) First increases then decreases
- Q.7 Which of the following is NOT press department control?
 a) Viscosity b) Moisture control
 c) Compression ratio d) Green MOR
- Q.8 _____ pressing method gives least density variation during shaping.
 a) Double acting b) Isostatic
 c) Single acting d) All of the above
- Q.9 In pressing operation which operation takes place at start?
 a) Compaction b) Ejection
 c) Filling of die d) All at same time
- Q.10 The ratio of the _____ to the **compact height** is the compaction ratio.
 a) Fill height b) Length of die
 c) Breadth of die d) Weight of granules

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SECTION-B

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

- Q.11 _____ pressing method gives least density variation during shaping.
- Q.12 _____ casting method does not involve plaster of paris moulds. (Tape/Hollow)
- Q.13 Firing shrinkage increases with increase in die pressure. (True/False)
- Q.14 Compaction ratio is the ratio of fill room height to _____.
- Q.15 Doctor blade process is used to shape thin sheets. (True/False)
- Q.16 With increase in moulding pressure green density _____. (Increases/Decreases)
- Q.17 Poly vinyl alcohol is used as _____. (Binder/Lubricant)
- Q.18 Alpha plaster is prepared by calcinations in _____ atmosphere. (Damp/Dry)
- Q.19 Residue control is employed in body preparation department. (T/F)
- Q.20 _____ is used ad deflocculant. (Sodium Silicate/Quartz)

SECTION-C

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

- Q.21 Explain extrusion process.

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