

**4th Sem. / Ceramic Engg
Subject : Tile Technology**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 Which of the following is body defect and not glaze defect?
a) Crazing b) Peeling
c) Over glazing d) Black core
- Q.2 Which of following tiles have two different body composition layers?
a) Vitrified Tile b) Glazed Vitrified Tile
c) Double charged d) Porcelain tile
- Q.3 In which press density variation is maximum?
a) Single acting b) Double acting
c) Isostatic d) All of above
- Q.4 How many pieces of tiles are produced in double cavity press in two pressing cycles?
a) 1 b) 2
c) 3 d) 4

Q.5 _____ layer is applied on tile between body and glaze?

- a) Glaze
- b) Engobe
- c) Both A & B
- d) None of the above

Q.6 Crazing defect in tiles arises due to

- a) Low firing temperature
- b) High Viscosity of glaze slip
- c) Mismatch of CTE of body and glaze
- d) Addition of binder in glaze

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Double charged tile is made by two bodies composition. (True/False)

Q.8 Speed of ball mill should be less than critical speed of ball mill. (True/False)

Q.9 Viscosity of slip can be measured by Ford cup. (True/False)

Q.10 Warping and cracks can occur during drying. (True/False)

Q.11 _____ is decorations method. (Screen printing / Water fall method)

Q.12 Peeling results when CTE of body is less than CTE of glaze. (True/False)

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

Q.13 Compare glazed floor tiles and vitrified tiles.

Q.14 Write properties of vitrified tile.

Q.15 Explain flocculation of slip.

Q.16 Discuss agitator process in making tile.

Q.17 Explain applications of engobe.

Q.18 Describe stage of pressing.

Q.19 Discuss possible defects during pressing.

Q.20 Explain need of drying.

Q.21 How will you determine the density of slip?

Q.22 Name final tests of tiles.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)

Q.23 Explain decoration methods in manufacture of tiles.

Q.24 Name and explain in process tests of tiles.

Q.25 Define firing. Explain different zones of firing of tunnel kiln.