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180734/170734/
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**3rd Sem / CIVIL, GE, BRICK TECH,
CONST. MGMT, HIGHWAY ENGG.**

Subject:- CONSTRUCTIONS MATERIALS

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 Which one of following not a roof tile? (CO-2)

- a) Allahabad tiles
- b) Flat tiles
- c) Paver block tiles
- d) POT tiles

Q.2 Granite is mainly composed of (CO-1)

- a) Quartz and felspar
- b) Quartz, felspar and mica
- c) felspar & mica
- d) Quartz & mica

Q.3 The % age of silica in a good brick day is (CO-2)

- a) 20 to 30%
- b) 30 to 40%
- c) 40 to 50%
- d) 50 to 60%

Q.4 Which one of following is not a type of paint? (CO-5)

- a) Silicate
- b) Coal tar
- c) Water
- d) Turpentine

Q.5 The material which easily break into pieces is (CO-6)

- a) Ductile
- b) Malleable
- c) Tough
- d) Brittle

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Q.6 Glass is a material (CO-7)

- a) Transparent
- b) Translucent
- c) Opaque
- d) a and b both

Q.7 Soundness of cement is due to (CO-3)

- a) Lime
- b) Silica
- c) Alumina
- d) Iron oxide

Q.8 Which of following is not a grade of OPC? (CO-3)

- a) 33
- b) 43
- c) 53
- d) 63

Q.9 Which of following is not component of a tree? (CO-4)

- a) Pith
- b) Sap
- c) Rot
- d) Balk

Q.10 The central part of tree is called (CO-4)

- a) Pith
- b) Sap
- c) Rot
- d) Balk

SECTION-B

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

Q.11 Rocks are composed of _____ (CO-1)

Q.12 Iron oxides provides _____ to the brick. (CO-2)

Q.13 Size of sieve used for fineness test of cement is (CO-3)

Q.14 The consistency of OPC cement is generally (CO-3)

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- Q.15 Wood from _____ trees is used for engineering purpose. (CO-4)
- Q.16 Plywood is _____ than an ordinary wood (samethickness) (CO-4)
- Q.17 Enumerate 2 type of paint. (CO-5)
- Q.18 The carbon content in high tension steel is? (CO-6)
- Q.19 What is plastic? (CO-7)
- Q.20 Define vitrified tiles. (CO-2)

SECTION-C

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

- Q.21 Enumerate the ingredients of cement. Write their composition %age range. (CO-3)
- Q.22 What are the laboratory test of cement? Explain one. (CO-3)
- Q.23 Write short note of kiln seasoning. (CO-4)
- Q.24 Explain type of trees according to their growth. (CO-4)
- Q.25 Write down 5 uses and 5 properties of mild steel. (CO-6)
- Q.26 Write down 5 advantages and 2 disadvantages of ACP sheets. (CO-7)
- Q.27 Explain type of plastic also. Write down example. (CO-7)

- Q.28 What are the main objective of applying varnish on surfaces? (CO-5)
- Q.29 Write down 3 advantages & 3 disadvantages of natural seasoning. (CO-4)
- Q.30 Explain difference b/w dry & wet process of cement manufacturing. (CO-3)
- Q.31 Write down 5 difference b/w clamp burning & kiln burning. (CO-2)
- Q.32 Explain
a) clay-fly ash bricks b) Refractory bricks
- Q.33 Enumerate name of 5 test perform on building stones. (CO-1)
- Q.34 What are the types of tiles? Write 3 advantages of tiles. (CO-2)
- Q.35 Write uses of cast iron. (CO-6)

SECTION-D

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

- Q.36 Write down names of 06 tests (field) perform on cement and explain all of them. (CO-3)
- Q.37 Write note on following board. (CO-4)
a) HARD BOARD b) LAMIN BOARD
c) FIBRE BOARD d) CEMENT BOARD
- Q.38 Explain 04 Tests conducted on Brick. (CO-2)
- (Note :** Course outcome/CO is for office use only)