



COLLEGE OF ENGINEERING, PUNE

(An Autonomous Institute of Government of Maharashtra.)
SHIVAJI NAGAR, PUNE - 411 005

END Semester Examination

(CE-201) Building Construction and Materials (Th)

Course: S.Y. Civil

Branch: Civil Engineering

Semester: Sem III

Year: 2014-2015

Max.Marks:60

Duration: 3 Hours Time:- ~~10-00-20~~ 10-1 PM

Date:~~4-12-14~~

22 NOV 2014

Instructions:

MIS No.

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1. All questions are compulsory and figures to the right indicate the full marks.
2. Mobile phones and programmable calculators are strictly prohibited.
3. Writing anything on question paper is not allowed.
4. Exchange/Sharing of anything like stationery, calculator is not allowed.
5. Assume suitable data if necessary.
6. Write your MIS Number on Question Paper

Q.1 A. What do you understand by unequal settlement of foundation enumerate the various causes and remedies of unequal settlement of foundation. (6)

B. Differentiate between ashlar and Rubble masonry with the help of neat sketches what important points should be kept in mind while doing stone masonry. (6)

Q.2

A. Write short notes on following stones giving their characteristics, properties and engineering uses.

a) Granite b) Marble c) Sand stone (6)

B. Suggest the suitability of following painting. A) White wash
b) Distemper c) Plastic emulsion and elucidate the method of white washing (6)

Q.3

A. Draw and explain column beam roof and couple close roof. (5)

B. Describe briefly the method of damp proofing under the following conditions

1. Foundation on poorly drained soil
2. Construction of flat roof in hot and humid zones. (5)

Q.4

- A.** Write a short notes on following a) Bull's Eye Arch b) Elliptical Arch (5)
- B.** What kind of the floor finishing will be required for the following building and briefly describe the method of construction of any two.
a) Hostel b) Dancing hall c) hospital verandah (5)

Q.5

- A.** Describe with the help of sketches Double hung window and sash window. (4)
- B.** Discuss the various consideration made in planning the stair cases. illustrate the different types of stair cases generally used indicating their suitability and specific use.(4)

Q.6

- A.** Explain Pitched roof and also compare the advantages and disadvantages of sloppy roof and flat roof. (4)
- B.** Differentiate between brief king post truss and Queen post truss indicating also draw their sketches. (4)