

**Government College of Engineering, Amravati
Civil Engineering Department**

Class test 2

**III Sem.B.Tech. (Civil Engg.) 2016-17
CEU 304: Building Construction and Materials**

Date: 21/09/2016

Duration: One Hour

Maximum Marks: 15

Solve any three of the following

- 1) Define the term 'window'. What are the points to be kept in view while making provision for windows in a room? Also give the classification of windows based on various criteria. Explain in detail clerestorey window along with a neat sketch. (5)
- 2) Discuss the various considerations that are made in planning of staircases. Illustrate the different types of staircases generally used indicating their suitability for specific use. (5)
- 3) What are the functions of lintels and arches? In a neat sketch show the parts of the latter giving their technical terms and explain each one of them in brief. (5)
- 4) Explain the various sources and effects of dampness in buildings. (5)

GOVT. COLLEGE OF ENGINEERING, AMRAVATI
CIVIL ENGINEERING DEPARTMENT
CLASS TEST II
SUBJECT : BUILDING CONSTRUCTION & MATERIALS CEU304
III SEM B. TECH. CIVIL ENGINEERING

Time : 1 Hr

Max. Marks : 15

- Q.1** – Define Lintel. State its types and suitability of each type. Draw neat sketches of L-section and cross section of R. C. C. lintel with chajja projection showing the reinforcement details in it. **(04)**
- Q.2** – List different types of steel roof trusses and state spans for which they are suitable. Draw line diagrams of any four types of steel roof trusses. Also draw a sketch showing fixing of roofing sheet with purlin. **(04)**
- Q.3** – State the requirements of a good stair. Explain the factors which should be considered while locating the stair in the building. **(03)**
- Q.4** – Design a suitable stair for the residential building from the following data.
i. Floor to floor height = 3.6 m
ii. Size of staircase hall = 4.7 x 2.0 m
Draw to a suitable scale the plan of the designed stair. **(04)**

OR

Draw neat sketches showing

- i) Details of connections of steel roof truss at support
- ii) Details of fixing of roofing sheets and angle purlin over the principal rafter

GOVERNMENT COLLEGE OF ENGINEERING, AMRAYATI

III Sem. B.Tech. (Civil)

CLASS TEST - II

COURSE CODE & TITLE: - (CEU - 304) Building Construction & Materials

Time: - One Hr.

Date: - 19/09/2017

Max. Marks: - 15

Solve any THREE

- Q.1 State the classification of doors on the basis of working operations. Explain in brief about Revolving doors and Rolling steel shutter doors with neat sketches 5
- Q.2 Explain in brief various fixtures and fastenings of doors and windows 5
- Q.3 Explain the details of R.C.C. lintel having chajja projection by means of a neat sketch 5
- Q.4 Explain in detail about the requirements of a good staircase. Explain in brief about flight, rise and tread 5