



# INSTITUTE OF AERONAUTICAL ENGINEERING

(AUTONOMOUS)

Dundigal, Hyderabad -500 043

## CIVIL ENGINEERING

### ASSIGNMENT- I AND II QUESTIONS

<b>Course Name</b>	: <b>BUILDING MATERIALS, CONSTRUCTION &amp; PLANNING</b>
<b>Course Code</b>	: <b>A40109</b>
<b>Class</b>	: II . Tech II Semester
<b>Branch</b>	: CIVI Engineering
<b>Year</b>	: 2016 – 2017
<b>Course Faculty</b>	: Mr. Santosh kamthane, Assistant Professor, Civil Engineering Department

#### OBJECTIVES

To introduce students to the basic concepts which are used for construction purpose.

1. How the wood, cement, admixtures is used for buildings and construction process.
2. To develop the building walls and foundations and how they are useful for buildings.
3. In these mainly we know about building arches, roofs, doors, windows and ventilators and how they are given for buildings.
4. To develop the form work and finishing work which is used for buildings and to solve the defects of building properties which are able to know with material.
5. Painting is also taken for a beautiful looking structure for the good manner.
6. These courses explain about the material which we want to use and how we want to use and how to give a good building for ma using purpose.

S. NO.	QUESTION	BLOOMS TAXONOMY LEVEL	PROGRAM OUTCOME
<b>ASSIGNMENT-I</b>			
<b>UNIT-I</b>			
<b>STONES, BRICKS, TILES, WOOD, ALUMINUM, GLASSAND PAINTS</b>			
1	Define Seasoning of timber. List out the defects in timber.	Remember	1
2	What are the paints commonly used in building construction?	Understand	1
3	State the points to be considered in selecting a site for the quarry of stones	Evaluate	1
4	What role does aluminum play in building construction?	Evaluate	1
5	Write down the characteristic properties of good stone?	Understanding	1
6	Explain in detail the process of manufacturing of glass?	Evaluate	1
7	Describe the geological classification of rocks. Give example of each type?	Evaluate	1
8	Explain the classification of bricks With neat sketch	Evaluate	1
9	Differentiate between exogenous trees and endogenous trees	Analyze	1
10	What are the various methods of quarrying of stones? Explain each method briefly.	Apply	1

S. NO.	QUESTION	BLOOMS TAXONOMY LEVEL	PROGRAM OUTCOME
<b>UNIT-II</b> <b>CEMENT &amp; ADMIXTURES</b>			
1	List out the ingredients of cement	Remembering	2
2	What do you mean by setting time of cement?	Understand	2
3	What are admixtures? List out their types.	Remembering & Evaluate	2
4	List harmful constituents in cement.	Remembering	2
5	List out the various grades of cement in India.	Remembering	2
6	What do you understand by the term setting and hardening of cement? What chemical reaction takes place during the process of setting?	Analyze	2
7	Explain the field tests on cement? Write the chemical composition of ordinary Portland cement.	Evaluate	2
8	Write short notes on: a) Soundness test of cement b) Tensile strength test of cement	Remembering	2
9	Explain about different chemical admixtures	Evaluate	2
10	Describe in briefly any type of manufacture of cement with the help of flow diagram.	Evaluate	2
<b>UNIT-III</b> <b>BUILDING COMPONENTS &amp; BUILDING SERVICES</b>			
1	Define lintel. Classify lintels.	Remembering	3
2	Define arch .what are the components of an arch?	Understanding	3
3	Define acoustics, acoustic design.	Remembering	3
4	Explain about the characteristics of acoustics	Evaluate	3
5	Classify among fire resistant materials	Remembering	3
6	Define the term foundation? Explain in detail various types of building foundations.	Remembering	3
7	What are different types of arches that are used for engineering construction? Describe any three types in detail with sketches.	Remembering	3
8	What do you understand by a) Ventilation b) Air conditioning Explain the necessity of each of them?	Evaluate	3
9	a) How are new foundations constructed near old existing structures? b) Discuss about the combined footings?	Understanding	3
10	Define a lintel and mention the materials which are commonly used to construction.	Evaluate	3
<b>ASSIGNMENT – II</b> <b>UNIT-1V</b> <b>MASONRY, FINISHING'S &amp; FORM WORK</b>			
1	Explain about the types of bonds in brick work	Evaluate	7
2	Write down the general requirements of mortars?	Evaluate	7
3	State the principles of form work design	Remembering	7
4	Define and explain about the importance of form work	Evaluate	7
5	Explain about the purpose of plastering	Evaluate	7
6	What is brick masonry? State and explain briefly the various classifications of brick masonry.	Understanding	7

<b>S. NO.</b>	<b>QUESTION</b>	<b>BLOOMS TAXONOMY LEVEL</b>	<b>PROGRAM OUTCOME</b>
7	What is Reinforced concrete cement (R.C.C) and explain its importance in construction of structures.	Remembering & Evaluate	7
8	What is scaffolding. State different types of scaffolding. Explain briefly with neat sketches.	Remembering & Evaluate	7
9	Mention the objectives of providing painting and plastering to the proposed surface.	Analyze	7
10	Describe the ashlar stone masonry and state its uses in construction of structures.	Evaluate	7
<b>UNIT-V</b> <b>BUILDING PLANNING</b>			
1	Write any four basic principles of building planning?	Remember	8
2	Define open space	Remembering	8
3	Define building planning. State its significance.	Remembering	8
4	Classify the building based on their occupancy.	Apply	8
5	What is a local authority? And state its functions.	Remembering	8
6	Explain various principles underlying building bye-laws.	Evaluate	8
7	Explain briefly the factors affecting building planning	Evaluate	8
8	Explain the following terms : i) Floor area ratio ii) Floor space index	Remembering	8
9	State and explain the various basic principles of building planning?	Remembering	8
10	Explain briefly the practical considerations in building planning?	Evaluate	8

Prepared by :-Santoshkamthane(Assistant Professor)

**HOD, CIVIL ENGINEERING**