

**Course Outcomes** 

Page No... 1

The Students will be able to:

CO1: Understand the basic materials in civil engineering

CO2: Analyse the types of foundation, have an insight to different types of doors, windows.

CO3: To classify Bonds in brick work, English bond, Flemish bond, Joints in stone masonry, arches.

CO4: To understand the building components and method of construction.

**<u>Note</u>:** I) PART - A is compulsory. Two marks for each question.

II) PART - B: Answer any <u>Two</u> sub questions (from a, b, c) for a Maximum of 18 marks from each unit.

Q. No.	Questions	Marks	BLs	COs	POs
	I:PART - A	10			
1 a.	What is ground water?	2	L2		PO1,2
b.	Define soil. What are the different types of soil?	2	L1	CO2	PO1,2
c.	On what basis earth is divided into three parts? Name it.	2	L1	CO1	PO2
d.	What are different types of rocks you have studied?	2	L2	CO1	PO2
e.	What is bio-fuel?	2	L2	CO2	PO1,2
	II : PART - B	90			
	UNIT - I	18			
2 a.	Define weathering. Explain different types and importance.	9	L2	CO1	PO2
b.	What is mineral? Describe physical properties of minerals in the	9	L1	CO1	PO1,2
	identification.	9	LI	COI	F01,2
c.	Explain important characteristics of igneous and sedimentary rocks.	9	L1	CO1	PO1,2
	UNIT - II	18			
3 a.	Define earthquake. Explain the causes and effects of EQ.	9	L2	CO2	PO3
b.	Define Landslides. Explain causes, types and add a note on remedial	0	1.0	<b>G Q Q</b>	DO2
	measures to control landslides.	9	L3	CO2	PO3
c.	Write a short note on, (i) Measuring and Ox-bow lake	5	1.0	<b>G O O</b>	2 PO3
	(ii) Soil profile	4	L2	CO2	
	UNIT - III	18			
4 a.	How you recognize Fault in the field?	9	L2	CO2	PO2
b.	Explain with a neat sketch: (i) HORST and GRABEN type of fault	5		<b>~</b> ~~~	
	(ii) OUTLIER and INLIER fold	4	L2	CO2	PO2
c.	Write short note on, (i) Columnar joint	5			
	(ii) Recumbent type of fold	4	L1	CO2	PO2

P18CVO654			Page No 2			
	UNIT - IV	18				
5 a.	Write short note on: (i) Hydrological cycle	5	L3	CO1	PO4	
	(ii) Aquifers and its types	4				
b.	Describe Rain water harvesting.	9	L3	CO1	PO7	
c.	Explain how the processing of bio-fuel is done?	9	L2	CO1	PO7	
	UNIT - V	18				
6 a.	Define dam. Explain different types with neat figures.	9	L2	CO2	PO7	
b.	Define TUNNEL. Explain different types with neat figures.	9	L2	CO2	PO4	
c.	What is GPS (Global Positioning System) add a note on application.	9	L2	CO2	PO4	

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