

THEORY

WEEK	CONTENT NO.	LESSON NO.	CLASS/Q UIZ TEST	BRIEF DESCRIPTION OF CONTENT
01	1.1-1.4	01		1.1 State the meaning of construction engineering work. 1.2 List different types of construction work. 1.3 Mention the field opportunity of construction engineering. 1.4 describe the job prospects of construction engineering.
02	2.1-2.5	02		2.1 Meaning of layout. 2.2 Instruments and accessories for layout. 2.3 Necessity of layout. 2.4 Understand of layout of a simple building. 2.5 understand of a road layout in field.
03	3.1-3.2	01		3.1 Define of concrete. 3.2 List of tools and materials for concrete works. (1.1-2.5)
04	3.3-4.4	01	C.T. -01	3.3 State ratio of concrete materials. 3.4 describe of concrete mixing in field. 3.5 State meaning of concrete curing. 4.1 Define brickwork. 4.2 Identification of different tools required for brickwork. 4.3 Mention the steps for brickwork. 4.4 Mention the defect of brickwork.
05	5.1-5.2	01	Q.T.-01	5.1 Define cement mortar. 5.2 Mention material requirements of cement mortar. (3.1-5.2)
06	5.3-6.4	01		5.3 Mention use of mortar. 5.4 Define plaster. 5.5 Describe the necessity of plaster. 6.1 Define fittings and fixtures. 6.2 list of fittings and fixtures. 6.3 differentiate between fittings and fixtures. 6.4 Description and demonstration of various types of drills and dies.
07	7.1-7.4	01		7.1 Introduction to joints. 7.2 List of tools for wood work. 7.3 Mention different types of wood joints. 7.4 Describe the raw material for welding.
08			C.T.-02	(5.3-7.4)
09	8.1-8.5	01		8.1 Define welding. 8.2 Necessity of welding. 8.3 Classify of welding types of welding. 8.4 Mention different types of welding. 8.5 Mention the raw material for welding.
10	9.1-9.4	01		9.1 Define joints. 9.2 Necessity of joints. 9.3 Classify of joints. 9.4 Distinguish between joints and welding.
11			Q.T.-02	REVIEW
12			C.T.-03	1.1-9.4

PRACTICAL

WEEK	CLASS	JOB NO.	BRIEF DESCRIPTION
01	01	01	1.1 Select and collect tools and equipment as per job requirement. 1.2 Perform welding (lap joint, butt joint, T joint and Corner joint).
02	01	02	2.1 Select and collect tools and equipment as per job requirement. 2.2 Perform a utility job involving all operations : Elbow, Union, Socket and Taps etc.
03	01	03	2.3 Perform setting of a basin.
04	01	04	3.1 Select and collect tools and equipment as per job requirement.
05	01	05	3.2 Perform layout of a simple building.
06	01	06	3.3 Perform layout of a road in field.
07	01	07	4.1 Select and collect tools and equipment as per job requirement. 4.2 Preparation of at least one utility job involving different joints.
08	01	08	5.1 Select collect tools and equipment as per job requirement. 5.2 Prepare cement mortar using specific ratio.
09	01	09	5.3 Perform plaster work in field.
10	01	10	6.1 Select collect tools and equipment as per job requirement. 6.2 Prepare a model of brick wall.
11	01	11	7.1 Select collect tools and equipment as per job requirement. 7.2 Perform concrete mixing.
12	01	12	Prepare of concrete cube and cylinder.