



- (OR)
- b) Explain the manufacturing process of clay bricks and write their advantages and disadvantages. 13 K2 CO1
12. a) Discuss the characteristics, seasoning process, and uses of timber in construction. 13 K2 CO2
- (OR)
- b) Examine the types and applications of geomembranes and geotextiles in earth reinforcement. How do they improve soil stability? 13 K2 CO2
13. a) Enumerate different types of shallow foundation with the neat sketches. 13 K2 CO3
- (OR)
- b) Write notes on K2 CO3
- i) Fire Protection of buildings 4
- ii) Thermal Insulation 4
- iii) Ventilation Requirements 5
14. a) List the machineries used for earth excavation. Describe with a sketch the most commonly used machinery for earth excavation. 13 K2 CO4
- (OR)
- b) Discuss the advantages of using equipments for various types of construction works. 13 K2 CO4
15. a) Conduct PERT analysis and determine the following for the given project. 13 K2 CO5
- Expected time of occurrence of activities
- Earliest and latest allowable occurrence time for events
- Slack for events and total floats for activities
- | Activity (i-j)<br>(Days) | 1-2 | 2-3 | 2-4 | 2-6 | 3-5 | 3-6 | 4-6 | 5-6 |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| $t_o$                    | 4   | 8   | 4   | 5   | 3   | 0   | 5   | 2   |
| $t_m$                    | 6   | 10  | 4   | 7   | 5   | 0   | 7   | 4   |
| $t_p$                    | 8   | 12  | 4   | 9   | 9   | 0   | 12  | 6   |
- (OR)
- b) Describe the various types of planning for network construction. 13 K2 CO5

PART – C

(1 x 15 = 15 Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	A lawyer's office is to be constructed with stone masonry and cost is not a constraint, suggest a suitable masonry and give the details of construction of masonry.	15	K3	CO3
	(OR)			
b)	Assume that a two storeyed residential building is proposed to be constructed. Discuss the type of equipments used in each stage of the construction process.	15	K3	CO4