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12. a) Explain in detail with neat sketch about Simple levelling and Differential levelling.

(OR)

b) Explain the different types of cement and its uses.

13. a) List out the different types of Shallow foundation and explain them.

(OR)

b) Compare Brick and Stone masonry.

14. a) Describe about the Four Strokes of the Petrol Engine.

(OR)

b) Describe the working principle of Reciprocating pump with neat sketch.

15. a) Describe the problems in the Vapour Compression Cycle.

(OR)

b) Compare Window and Split type room air conditioner with pros and cons.

PART – C

(1×15=15 Marks)

16. a) Explain the methods adopted to compact the concrete.

(OR)

b) With neat sketch explain any one type of dam which is present in Tamil Nadu.