

12. (a) (i) Compare the English Bond and Flemish Bond. (6)
(ii) Draw a neat sketch showing the alternative layers for a fill brick masonry in English Bond and Flemish Bond. (10)

Or

- (b) (i) Why expansion joints are required in building construction? (4)
(ii) Draw a neat sketch for expansion joint at foundation level and expansion joint at roof level and explain it in detail. (12)
13. (a) Explain the Construction techniques involved in underwater construction with neat sketches.

Or

- (b) Explain the Construction techniques applied for driving diaphragm walls and sheet Piles with neat sketches.
14. (a) Discuss in detail the various techniques used for the construction of heavy decks.

Or

- (b) Explain the support structures required for heavy equipments and conveyors.
15. (a) Explain the factors governing the selection of equipment for earthwork. (16)

Or

- (b) Mention various types of earthwork equipments and also give their uses. (16)