

QUESTION ONE (30 MARKS) COMPULSORY

- a) Differentiate formwork from false work. (4 Marks)
- b) A good formwork should satisfy several conditions. Highlight them. (6 Marks)
- c) Using clear illustrations, discuss framed structures, highlighting the different types. (10 Marks)
- d) A client has tasked you to help decide on whether to do a pitched roof or a flat roof for their new building. Educate the client so they can make an informed decision based on their budget. (10 Marks)

QUESTION TWO (20 Marks)

- a) Describe the differences between pad and pile foundations and indicate the situations in which each is best used. (6 Marks)
- b) What is underpinning and when is it required? (4 Marks)
- c) Sketch and detail a suspended floor. (10 Marks)

QUESTION THREE (20 Marks)

Discuss the materials used for formwork and false work, their requirements, construction methods and design principles.

QUESTION FOUR (20 Marks)

- a) Discuss the performance of framed structures under loads (10 Marks)
- b) Define dewatering and name the phases and methods involved. (10 Marks)

QUESTION FIVE (20 Marks)

- a) Describe the construction of a concrete staircase (14 Marks)
- b) Highlight how roof waterproofing can be done. (6 Marks)