



### QUESTION ONE (30marks)

- a) Define the following terminologies commonly used in construction sites (10marks)
  - i. Tender security
  - ii. Defects liability period
  - iii. Provisional sum
  - iv. Pre-bid conference
  - v. Preliminary items
  
- b) Using zoning principle discuss with the aid of a sketch key components of a building construction site in relation to the proposed structure(s) (10marks)
- c) State four main environmental hazards/risks in construction sites (4marks)
- d) Highlight the main difference between a factory inspector and a safety officer with respect to construction sites (3marks).
- e) Briefly explain why it is necessary to hoard a construction site (3marks).

### QUESTION TWO (20marks)

- a) As a project manager briefly highlight to your employer the roles of an architect and a quantity surveyor in a high-rise building construction project with basements (9marks).
- b) State the major construction equipment that would be deployed in the above project (6marks)
- c) Briefly discuss project activities prior to commencement of design phase (5marks)

### QUESTION THREE (20marks)

- a) Define the following terms with regard to emergency preparedness and disaster management in construction sites.
  - i. Emergency preparedness
  - ii. Evacuation exercise
  - iii. Recovery plan
- b) Discuss the roles of top management and site management staff in minimizing accidents in construction sites (14marks).

**QUESTION FOUR (20marks)**

- a) Define the term “open tendering” **(2marks)**
- b) Briefly discuss the merits and demerits of open tendering system **(8marks)**.
- c) As a project manager, advise your employer on when it is appropriate to apply negotiated tendering method **(3marks)**
- d) State seven key items that would form part of a tender evaluation report **(7marks)**

**QUESTION FIVE (20marks)**

- a) What strategy would you put in place to eliminate or minimize the following risks in construction sites? **(8marks)**
  - i. Injury to passersby
  - ii. Disease outbreak
  - iii. Falls from heights
  - iv. Injuries from excavated pits
- b) i. Why is necessary to construct a site office in construction sites **(6marks)**.  
ii. Highlight the main components of a typical site meeting minutes for a building construction project **(6marks)**.