

- a) Briefly explain the following terminologies commonly used in construction sites **(10marks)**
- i. Performance security
 - ii. Workman's compensation
 - iii. Provisional cost sum
 - iv. Pre-contract meeting
 - v. Scaffolding
- b) Discuss five temporary structures required in building construction site prior to work commencement **(10marks)**
- c) Highlight four main electrical power triggered hazards/risks in construction sites of multistoreyed projects in urban set ups **(4marks)**
- d) Outline four strategies a safety officer would employ to minimize accidents on construction sites **(4marks)**.
- e) Briefly explain means of providing security in construction sites **(2marks)**.

QUESTION TWO **(20marks)**

Assuming you have been appointed a Project Manager to manage construction of a modern high-rise office complex in the City of Nairobi neighboring Nairobi River and accessed through a City Road.

- a) State eight key-built environment professionals you would recommend for recruitment as consultants for the project **(4marks)**.
- b) Briefly highlight to your employer your role as a Project Manager **(6marks)**.
- c) Advise your employer on statutory approvals and their relevance to this project **(6marks)**
- d) Advise your employer on sub-contracts that would be relevant to this project **(4marks)**

QUESTION THREE **(20marks)**

Disasters are construction risks that are either natural or man-made and can pose serious impacts on construction projects. Assuming you have been employed as a project manager explain to your client the following:

- a) Response measures that should be taken should a disaster occur **(5marks)**.
- b) The scope of emergency preparedness and disaster management plan for construction sites **(5marks)**.

- c) Various measures of disaster preparedness **(6marks)**
- d) Measures a Site Supervisor take in the event that one of the site workers is injured during a disaster or accident **(4marks)**.

QUESTION FOUR **(20marks)**

The Public procurement and Disposal Act was enacted by the Kenyan government to facilitate procurement in public entities. Answer the following questions with respect to this Act of Parliament.

- a) Briefly explain the objectives this Act of Parliament was intended to achieve **(6marks)**
- b) Briefly explain the advantages of direct tendering compared to open tendering system **(4marks)**.
- c) As a project manager, advise your employer who is public entity on other alternative forms of tendering for procuring contractors other than direct and open tendering **(5marks)**
- d) State under what circumstances an individual or firm can be debarred in participating in public procurement **(5marks)**

QUESTION FIVE **(20marks)**

- a) What strategies would you put in place to increase productivity of construction workers? **(10marks)**
- b) i. Why is it necessary for a Project Manager to prepare and submit site progress reports to the employer? **(2marks)**.
ii. Highlight the main components of a typical site weekly report for a building construction project **(8marks)**.