**Subject:** Electrical and Fire Safety at Work

**Maximum Time Allowed:** 3 hours

**Instructions**: Do not write on any part of the exam paper. All rough work should be done in your answer booklet. All questions carry equal marks. You are required to answer only FOUR questions.

Question 1

a. What are electrical fires? How are they caused? Briefly explain. [5]

b. “Training”, “Management system”, and “Safe systems of work” are required in ensuring electrical safety at the workplace. Discuss. [20]

Question 2

a. Fire can be classified in a number of ways. Discuss. [15]

b. Examine four (4) things a fire plan should show. [10]

Question 3

People should be able to escape quickly from a workplace should there be a fire. What are some of the criteria fire escape routes should meet? Discuss any five (5). [25]

Question 4

Discuss in detail five (5) prevention and control measures for electrical fires. [25]

Question 5

a. What is a fire risk assessment? [5]

b. The first stage of a fire risk assessment is the identification of fire hazards in the workplace. Discuss four (4) critical things that must be identified at this stage. [20]

Question 6

Discuss the following in your own words: - Fire routine procedures [5]; - Fire drills [5]; - Electrical fuse [5]; - Inspection and maintenance of electrical equipment [10]