

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DIPLOMA IN CRIMINOLOGY AND SECURITY STUDIES**

**CRSS 0234: FIRE SAFETY AND PROTECTION**

**STREAMS: DIP (CRIMINOLOGY) Y2S2 (ODEL)**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 13/04/2023**

**8.30 A.M. –10.30 A.M.**

**INSTRUCTIONS**

Answer Question **ONE** and any other **TWO**.

**QUESTION ONE (30 Marks)**

- a. Explain the following terms. (10 marks)
- i. Fire
  - ii. Heat transfer
  - iii. Conduction
  - iv. Radiation
  - v. Conflagration
- b. Discuss the major sources of heat. (12 marks)
- c. Discuss **PASS** in the operation of portable fire extinguishers. (8 marks)

**QUESTION TWO (20 Marks)**

- a. Explain the General Staff in fire incident command system. (10 marks)
- b. Elaborate the major auxiliary Fire Extinguishers. (10 marks)

**QUESTION THREE (20 Marks)**

- a. Examine the potential hazards existing in electric source of heat. (10 marks)

- b. Describe the various stages of fire in burning process. (10 marks)

**QUESTION FOUR (20 Marks)**

- a. Analyze **FIVE** categories/classes of fires. (10 marks)  
b. Briefly describe fire alarm signaling systems. (10 marks)

**QUESTION FIVE (20 Marks)**

- a. Examine the factors that determine speed of growth in intensity and size of fire at growth stage. (10 marks)  
b. Discuss **THREE** modes of heat energy transfer. (10 marks)
-