



MACHAKOS UNIVERSITY

University Examinations for 2021/2022

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

DIPLOMA IN MECHANICAL ENGINEERING (PLANT-TVET OPTION)

MODULE 1

PLANT MAINTENANCE

DATE:

TIME:

INSTRUCTIONS

This paper consists FIVE questions, attempt ALL.

1. (a) State Five objectives of industrial safety. (5 marks)
- (b) Outline any Three responsibilities of the employer and Three of employees under health and safety act. (5 marks)
- (c) Explain briefly Five types of personal protective equipment in regard to health and safety. (5 marks)
- (d) Highlight Five causes of accident in workshops. (5 marks)
2. (a) Discuss Five classes of fire and give their extinguishing agents. (10 marks)
- (b) Explain briefly the procedure of investigating and reporting incidents in place of work. (10 marks)
3. (a) Name the main contents of first aid kit (5 marks)
- (b) Describe briefly the procedure of emergency resuscitation in place of work. (8 marks)
- (c) Explain briefly first aid for the following,

- i. Fractures (7 marks)
 - ii. Bleeding control
 - 4 . (a) Mention Five purposes and goals of legislation health and safety Act . (5 marks)
 - (b) In relation to legislation explain the general provisions for the following;
 - i. Cleanliness (12 marks)
 - ii. Overcrowding
 - iii. Storage
 - iv. Transmission machinery
 - (c) Give Six safe working methods. (3 marks)
- 5. (a) Explain the responsibilities of the following personnel's in relation to health and safety;
 - i. Health and safety committee (12 marks)
 - ii. Factory inspector
 - iii. Safety officer
- (b) Outline principles of developing an effective safety policy. (8 marks)