



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

DES18S/DCHM18S/DEH18S/YEAR2/SEMESTER 2

APH2204: OCCUPATIONAL HEALTH AND SAFETY

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2019

TIME: 2 HOURS

Instructions to Candidates

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions.

This paper consists of two printed pages.

Mobile phones are NOT allowed in the examination room

QUESTION ONE (30 MARKS)

- a) Explain the following terms
- i. Hazard (1Mark)
 - ii. Personal protective equipment(**PPE**) (1Mark)
 - iii. Risk management (1Mark)
 - iv. Safety (1Mark)
 - v. Ergonomics (1Mark)
- b) Explain the difference between health hazard and safety hazard (2Marks)
- c) Enumerate goals of occupational health and safety at any given work place (5Marks)
- d) Enumerate the **THREE** primary Ergonomic risk factors that cause MSDs (3Marks)
- e) State **THREE** factors to consider in selecting the right **PPE** (3Marks)

f) Highlight the **THREE** main exposure control methods in a manufacturing industry (3Marks)

g) Personal protective equipment (PPE) is said to be the final measure in risk management. Categorize the components of PPE. (5Marks)

h) List **FOUR** benefit of fitness to work assessment at any given work place (4Marks)

QUESTION 2

a) Discuss relevant steps to improving ergonomics at the work place (10Marks)

b) Briefly discuss two processes of Job Demand-Resources model (5Marks)

QUESTION 3

Describe categories of occupational related diseases (15Marks)

QUESTION 4

Explain how you would manage noise hazard in steel making industry (15Marks)

QUESTION 5

a) Discuss **FIVE** special professions and their recommended public health vaccination (10 Marks)

b) Explain **FIVE** occupational related diseases caused by physical hazards. (5Marks)