



**UNIVERSITY OF SWAZILAND**  
Faculty of Health Science

Department of Environmental Health  
Sciences

Final Examination 2007

- TITLE OF PAPER : INSTITUTIONAL ENVIRONMENTAL HEALTH & SAFETY
- COURSE CODE : EHS 532
- DURATION : 2 HOURS
- MARKS : 100
- INSTRUCTIONS :
- : READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
  - : ANSWER ANY FOUR QUESTIONS
  - : EACH QUESTION CARRIES 25 MARKS
  - : NO PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM
  - : BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER

DO NOT OPEN THE QUESTION PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

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## EHS 532 Final Examination 2006/2007

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Answer any 4 questions

### Question 1

Monitoring the health of workers is an important component in preventing occupational illnesses and diseases.

Explain the elements of the medical surveillance for employees. [25 Marks]

### Question 2

a) A sitting workstation that is not ergonomic causes ailments and cumulative trauma disorders on the human body.

Explain the design of an ergonomic sitting workstation. [20 Marks]

b) List the 5 factors to be considered when assessing the risk for manual material handling activities. [5 Marks]

### Question 3

a) Name and explain any 4 ergonomic principles of hand tool design. [12 Marks]

b) Shift work:  
i) What is shift work? [1 Mark]

ii) Give 3 adverse effects to worker's safety and 3 adverse effects to worker's health? [12 Marks]

### Question 4

Outline the main provisions of the occupational safety and health Act, 2001 that apply to

i) Employer [10 Marks]

ii) Employee [5 Marks]

iii) Accidents and diseases [5 Marks]

iv) Labour department inspectors [5 Marks]

### Question 5

a) How does occupational stress affect the worker and the company [10 marks]

b) Explain how the worker's health can be affected physically, mentally and socially at the workplace. [15 Marks]