



FACULTY OF ENGINEERING AND THE ENVIRONMENT

DEPARTMENT OF MINING ENGINEERING

DEPARTMENT OF METALLURGICAL ENGINEERING

Engineering Communication Skills

EMR/EMI 1105

Final Examination Paper - January 2021

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: Miss M. Kanganga

INSTRUCTIONS

1. This question paper consists of 5 questions, answer **ANY FOUR QUESTIONS**
2. Each question carries 25 marks
3. Answer each question on a new page and write as eligible as possible

Additional Requirements

None

MARK ALLOCATION

Question 1 to 5	25 Marks
Part Questions	As shown in each part question
Total Attainable	100

Question 1

- 1.1. What do you understand by engineering communication [5]
- 1.2. Name and explain the forms of communication. [10]
- 1.3. What is the importance of feedback in communication? [5]

Question 2

You have been working in a team on the development of a machine that is meant to make lifting of heavy luggage easier than the case when it is done manually. Imagine that no one has ever seen this machine. You have been selected to design and give a full description of the machine that will be placed in the local newspaper to enable your team to market it.

- 2.1. Draw such a machine. [10]
- 2.2. Write an article for advertising the machine in the newspaper. [15]

Question 3

- 3.1. In a workshop what is the significance of displaying warning signs as communication tools.
[5]
- 3.2. Lateral communication is usually part of an informal system, linking employees at similar levels of responsibility that do not work directly together. What are the problems that are likely to be experienced with this type of communication? [10]
- 3.3. Explain and show the importance of both downward and upward communication. [10]

Question 4

- 4.1. You are addressing a diverse audience in an engineering workshop, why is it important to use visual (charts and graphs) aids in your presentation? [10]
- 4.2. Explain the term "Kinesics" and write a note on the four major types of body language. [5]
- 4.3. Using PowerPoint slide format show how you prepare the following Topic
"The Importance of Communication in Engineering" [10]

Question 5

- 5.1. Seven C's are the seven most useful qualities of effective communication, discuss [25]

