



ELIZADE UNIVERSITY, ILARA-MOKIN,
ONDO STATE, NIGERIA

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND SEMESTER EXAMINATIONS

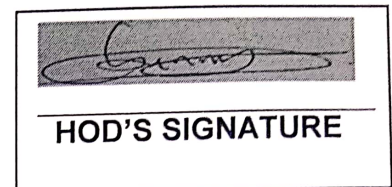
2018/2019 ACADEMIC SESSION

COURSE: GNE 302 – Engineering Communication (2 Units)

CLASS: 300 Level General Engineering

TIME ALLOWED: 2 Hours

INSTRUCTIONS: Answer any **FOUR** questions



Date: July, 2019

Question 1

- (a) List four types of documents engineers are normally required to prepare in practice? (2 Marks)
- (b) List ten different oral presentation in which it is advisable, perhaps compulsory to read out, rather than use outlines, or power point. (5 Marks)
- (c) Make an outline of the 8 main features in a term paper (4 Marks)
- (d) Why is Executive Summary so called, and how does it differ from an Abstract? (4 Marks)

Question 2

- (a) Which 4 indices would qualify a research output for patent? (2 Marks)
- (b) In structuring a technical writing, or a speech, describe 5 strategies that may be employed. (5 Marks)
- (c) (i) “*You can be well prepared and still give a bad presentation if your nonverbal communication is poor*”. What are these nonverbal communication? (4 Marks)
- (ii) Briefly discuss four ways a speaker could improve on nonverbal communication? (4 Marks)

Question 3

- (a) List five common features in the prefatory section of a technical report. (2 Marks)
- (b) Briefly explain what constitute “mechanical accuracy” in technical report writing. (5 Marks)
- (c) (i) What is the main goal in Public Speaking? (4 Marks)
- (ii) Describe three factors which may influence this goal? (4 Marks)
- (iii) Using a full page of your answer booklet, **set a pattern** for presenting a poster on the topic “Solar Energy for Sustainable Rural Electrification” (4 Marks)

Question 4

(2 Marks)

(a) (a) List the four sections of an abstract

(b) An article jointly authored by Oyewola, O. M. and Okediji, A. P. titled “Reynolds Number Dependence on the Effect of Axial Stress on Unsteady Polyvinyl Chloride Pipeline Flow” was published in 2012, and appeared on pages 59 to 68 in the 1st issue of the 12th volume of the American Journal of Engineering and Technology Research. Show two ways it may be cited within the body of a technical report, and how it should be listed under references, following APA style.

(5 Marks)

(c) Edit the following sentences to improve the grammar and style:

(i) The value of power required is 3.5 KW

(ii) High temperature adversely effects metal strength, as shown in table 3.

(iii) Civil engineers build roads, building construction, and waterworks planning.

(iv) We plug these numbers into Einstein’s formula, to obtain the pattern in figure 2.1

(4 Marks)

(d) Edit the following to reduce the number of words, and correct grammatical problems.

(i) Mechanical engineers design machines and equipment, are lecturers in universities and research institutes, and are providers of consultancy services.

(ii) At a temperature of 205°C, the sulfur is very viscous. This can be a problem in the first condenser, causing clogging of the tubes.

(4 Marks)

Question 5

(a) What is Engineering Communication?

(2 Marks)

(b) List four of the signs of speech anxiety during oral presentation, and suggest six ways of overcoming them.

(5 Marks)

(c) (i) Provide four important guidelines in writing an official email

(2 Marks)

(ii) Write a letter through your Head of Department, through the Dean of your Faculty, and through the Dean of Student Affairs, to request for permission from the Vice-Chancellor to travel outside the country for two weeks during the holidays.

(6 Marks)