NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF

FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION

DEPARTMENT OF SCIENCE, MATHEMATICS AND TECHNOLOGY EDUCATION

PST 5312 ONLINE LEARNING PRINCIPLES AND PRACTICES

Main Examination
November/December 2024

This Examination Paper consists of 4 pages

Time Allowed:	3 hours
Total Marks:	100
Internal Examiner:	A. Mangena
External Examiner:	Dr B Moyo

INSTRUCTIONS

1. Answer any four questions.
2. Each question carries 25 marks. Total Marks are 100.

ADDITIONAL MATERIALS NEEDED

1. A computer with access to internet
2. Google chrome Web browser

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5. (Practical)	25
TOTAL	100

Question One

a) Write in full the following abbreviations used in Online Learning:

- ChatGPT,
- AI,
- ODEL,
- MOOCS,
- MOODLE.

[5 Marks]

b) Copy and complete the following Table, the first example has been done for you.

Term	Description
Webex	Webex is a CISCO software which offers workspace chat and videoconferencing, It can be used for both business and academia.
Scratch	
Google Gemini	
Dropbox	
Survey Monkey	

[8 Marks]

c) Distinguish between Synchronous Learning and Asynchronous Learning.

[6 Marks]

d) Critique the notion that Whatsapp as a tool for learning is ineffective.

Question Two

a) Study Figure 2.1 and describe the importance of good computer ergonomic habits. Provide a guideline for best practices in online leaning,

Figure 2.1

[15 Marks]

b) Discuss the pros and cons of OER (Open Educational Resources).

[10 Marks]

Question Three

a) Discuss the TPACK Model and show how it links to E-Learning.

[16 Marks]

b) Explain how mobile learning fosters self-directed learning

[9 Marks]

Question Four

a) Discuss the ethical considerations and challenges associated with online learning.

[10 Marks]

b) How does online learning promote accessibility and inclusivity in education?

[15 Marks]

Question Five (Practical)

a) Create a Google Form with 10 items (10 Questions)

The questions should be as follows

Question 1 should be Multiple Choice type question

Question 2 should be a Short Answer questions

Question 3 should be a Paragraph type question

Question 4 should be a Checkbox type of question

Question 5 should be a Dropdown type of question

Question 6 should be File upload type of question

Question 7 should be Linear Scale type of question

Question 8 should be Multiple choice grid type of question

Question 9 should be Tick box grid type of question

Question 10 should be a Date type od question

[20 Marks]

b) Create a Google classroom for the subject you are currently teaching.

[5 Marks]

~ End of Exam ~