CINEC CAMPUS
Beyond A Graduate

FINAL EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: DIPLOMA IN TEACHING MATHEMATICS & SCIENCE
COURSE CODE: LC -0844
SUBJECT: METHODS OF TEACHING MATHEMATICS

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date: 2022/12/18
Total Marks = 100	Duration of the examination = 02 hours
	Candidates could be disqualified if you violate examination rules.
	Candidates are not allowed to communicate with and disturb fellow candidates during the examination.

❖ **Answer any four questions (Each question carries 25 marks)**

Question 01

a) Briefly introduce Piaget's stages of cognitive development. (10 marks)
b) Discuss the relationship between Piaget's idea of stages at development and teaching mathematical concepts. (15 marks)

(25 marks)

Question 02

Describe the following teaching methods/strategies using suitable examples.

a) Inductive-Deductive methods
b) Heuristic method
c) Project method

(25 marks)

Question 03

Polya's four step of problem-solving process has provided a model for teaching and assessing problem solving in mathematics classroom.

a) Name the stages of polya's problem solving method (10 marks)
b) Describe using suitable examples the steps of Polya's Problem-solving method for mathematics. (15 marks)

(25 marks)

Question 04

Following are the two answers students provided for the sum 0.1 + 0.01 out of which one is wrong.

a) 0.11 ii. 0.02 (2marks)
b) Explain the possible reason/s for this error. (8 marks)
c) How would you deal with this misconception? Explain using any teaching method you have studied or suggest any other suitable way/s to help the students. (15 marks)

(25 marks)

Question 05

a) Name 5 different tests you can use in the teaching learning process. (4 marks)
b) What is a prognosis test? (6 marks)
c) How prognosis test is valuable for school students? (15 marks)

(25 marks)

Question 06

a) Explain the abstract nature of mathematics (10 marks)
b) How would you describe the nature of mathematics? How is it expressed? (15 marks)

(25 marks)

----------END OF THE QUESTION PAPER----------