



REFORMED CHURCH UNIVERSITY

FACULTY OF EDUCATION AND SOCIAL SCIENCES

**BACHELOR OF EDUCATION HONOURS DEGREE IN
EARLY CHILDHOOD DEVELOPMENT**

MATHEMATICS AND SCIENCE EDUCATION IN ECD

HECD 212

PART 2 SEMESTER 1 EXAMINATION

TOTAL MARKS [100]

DATE: December, 2024

Time: 3 Hours

INSTRUCTIONS

1. This paper has *five (5)* questions
2. Answer any *three (3)* questions
3. Each question carries *100 marks*
4. Start each question on a new page

1. Evaluate the applicability of Brunner's modes of representation in grade one children's mastery of mathematics. (100)
2. Analyse the assertion that the Education 5.0 philosophy is pivotal in the process of industrialization. (100)
3. Critique the statement that children master mathematics and science concepts in a social context. (100)
4. Examine the significance of field trips in the teaching and learning of mathematics and science in the early years. (100)
5. 'Assessment informs the teaching and learning of Science and Mathematics at ECD level.' Discuss. (100)

END OF PAPER