



GRETSA UNIVERSITY - THIKA

**UNIVERSITY EXAMINATIONS
JANUARY – APRIL 2025 SEMESTER**

BACHELOR OF EDUCATION (ARTS)

COURSE CODE: BECT 308

**COURSE TITLE: SPECIAL SUBJECT METHODS AND MICRO
TEACHING MATHEMATICS**

DATE: APRIL 2025

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **TWO** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: All exam rooms are under CCTV surveillance during the examination period.

SECTION A: COMPULSORY

Question One

- a) Highlight **four** importance of a mathematics lesson plan. [4 Marks]
- b) State **four** factors to consider before preparing mathematics scheme of work [4 Marks]
- c) Write **three** characteristics of a good lesson objective [3 Marks]
- d) Describe **three** instances when to use a brief lecture method during the Mathematics lesson. [6 Marks]
- e) Outline **three** factors to consider when writing objectives for a mathematic lesson. [3 Marks]
- f) Mention **four** qualities of a good mathematics teacher. [4 Marks]
- g) Explain **three** reasons why student teacher should do micro teaching. [6 Marks]

SECTION B: ANSWER ANY TWO QUESTIONS

Question Two

- a) Describe factors a teacher should consider when choosing a teaching strategy [10 Marks]
- b) Analyze **five** importance of scheme of work in teaching mathematics. [10 Marks]

Question Three

- a) Examine how a teacher's own judgment must supplement the mathematic syllabus. [10 Marks]
- b) Evaluate the importance of teaching -learning resource in mathematics [10 Marks]

Question Four

- a) Demonstrate how you can apply Jean Piaget psychological theory when teaching mathematics [10 Marks]
- b) Examine the significance of maintaining updated mathematics record of work throughout the term [10 Marks]

Question Five

- a) Describe **five** characteristics of a good teaching chart [10 Marks]
- b) Analyze the importance of testing learner in Mathematics [10 Marks]