

AUGUST 2022  
EBS 124/124J  
COLLEGE GEOMETRY  
2 HOURS

|                          |
|--------------------------|
| Candidate's Index Number |
|                          |
| Signature:               |

UNIVERSITY OF CAPE COAST  
COLLEGE OF EDUCATION STUDIES  
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH  
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION  
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)  
FIRST YEAR, END-OF-SECOND SEMESTER EXAMINATION, AUG/SEPT. 2022

AUGUST 22, 2022

COLLEGE GEOMETRY

2:00 PM – 2:40 PM

This paper consists of two sections, A and B. Answer ALL the questions in Section A and TWO questions from Section B. Section A will be collected after the first 40 minutes.

SECTION A  
(20 MARKS)

Answer ALL the questions in this Section.

Items 1 to 20 are stems followed by four options lettered A to D. Read each item carefully and circle the letter of the correct or best option.

1. Which of the following statements are true about circle geometry?
  - I. The opposite interior angles of a cyclic quadrilateral are supplementary.
  - II. The radius and a tangent of a circle meet at a right angle.
  - III. Equal chords subtend congruent angles at the circumference of a circle.
  - A. I, II and III.
  - B. I and II only.
  - C. I and III only.
  - D. III and II only.
  
2. For any triangle with vertices A, B and C, the construction of  $\triangle ABC$  is possible if:
  - A.  $AB + BC \leq AC$
  - B.  $AB + BC < AC$
  - C.  $AB + BC = AC$
  - D.  $AB + BC > AC$