



GARISSA UNIVERSITY

UNIVERSITY EXAMINATION **2017/2018** ACADEMIC YEAR **TWO**
SECOND SEMESTER EXAMINATION

SCHOOL OF EDUCATION, ARTS AND SOCIAL SCIENCES

FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

COURSE CODE: EDM 211

COURSE TITLE: SPECIAL METHODS IN MATHEMATICS

EXAMINATION DURATION: 3 HOURS

DATE: 10/04/18

TIME: 3.00-6.00 PM

INSTRUCTION TO CANDIDATES

- The examination has **SIX (6)** questions
- Question **ONE (1)** is **COMPULSORY**
- Choose any other **THREE (3)** questions from the remaining **FIVE (5)** questions
- Use sketch diagrams to illustrate your answer whenever necessary
- Do not carry mobile phones or any other written materials in examination room
- Do not write on this paper

This paper consists of **TWO (2)** printed pages

please turn over



QUESTION ONE (COMPULSORY)

- (a) Define the following terms;
- i. Mathematics
 - ii. Lesson plan
 - iii. Scheme of work **[3 marks]**
- (b) Prepare a lesson plan you will use to teach recurring decimals **[15 marks]**
- (c) Discuss the contribution of Sofia Kovalevskaya to development of mathematics **[7 marks]**

QUESTION TWO

- (a) Discuss challenges encountered in the teaching of mathematics Kenyan Secondary Schools **[7 marks]**
- (b) How is mathematics relevant to the following fields **[8 marks]**
- i. Religion
 - ii. Physics

QUESTION THREE

- (a) Explain the objectives for teaching and learning of mathematics **[9 marks]**
- (b) Discuss factors to consider when preparing lesson plan **[6 marks]**

QUESTION FOUR

- (a) Outline factors to be considered when choosing a teaching method **[8 marks]**
- (b) Discuss how a mathematics teacher can enhance learner's attitude towards the subjects **[7 marks]**

QUESTION FIVE

- (a) Outline how you would use problem solving method effectively in teaching of mathematics **[8 marks]**
- (b) Discuss the limitation mathematics syllabus in Kenya **[7 marks]**

QUESTION SIX

- Compare and contrast Piaget's and Brunner's of cognitive development **[15 marks]**

