OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, RESEARCH AND STUDENTS' AFFAIRS

UNIVERSITY EXAMINATIONS

2018/2019 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER PART-TIME EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

COURSE CODE: EPE 313

COURSE TITLE: METHODS OF TEACHING MATHEMETICS IN EPE

DATE: 15TH APRIL, 2019 **TIME: 9.00 AM – 12.00 PM**

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES **PLEASE TURN OVER**

EPE 313: METHODS OF TEACHING MATHEMETICS IN EPE

STREAM: BED (PRIMARY EDUCATION) **DURATION: 3 Hours**

INSTRUCTIONS TO CANDIDATES

i. *Answer Question **ONE** and any other **TWO** questions.*

ii. *Do not write on the question paper.*

Question One

a) Explain **four** General goals of teaching Mathematics (8marks)

b) State and explain **four** importance of instructional objectives (8marks)

c) i) Differentiate between Cognitive and Stimulus-Response theories (2marks)

ii) With examples each differentiate between deductive and inductive approach of teaching Mathematics (4marks)

iii) Describe **three fixed** response methods of learning Mathematics (3marks)

d) State **two** roles of a teacher in the laboratory method of teaching (2marks)

e) Outline **three** importance of a scheme of work (3marks)

Question Two

a) Bruner says that although there are **three** modes of representation, there are some other cognitive impulses that begin to evolve within the human being called cognitive entities. Explain **four** cognitive entities according to him (8marks)

b) State and explain **four** implications of Bruner's Cognitive theory of learning (8marks)

c) Highlight any **four** applications of stimulus response theories in Mathematics teaching (4marks)

Question Three

a) Explain **four** roles of laboratories in teaching of Mathematics (8marks)

b) Highlight **four** waysin which a teacher can make materials in the laboratory useful (4marks)

c) Name **three** categories of materials that should be kept in the laboratories (3marks)

d) What is the role of a teacher in free discovery method of learning (2marks)

e) State any **three** importance of problem solving (3marks)

Question Four

a) Explain **five** roles of a textbook in the classroom (10marks)

b) Describe **four** considerations when judging a good textbook (8marks)

c) State **two** dangers of textbook teaching (2marks)

Question Five

a) Explain **five** importance of drawing a scheme of work (10marks)

b) Outline **six** factors to be considered in designing a qualitative mathematics scheme of work (6marks)

c) Write **eight** components of a scheme of work (4marks)

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