



MASEÑO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF MASTER OF EDUCATION IN EDUCATIONAL
TECHNOLOGY**

MAIN CAMPUS

**ETE 808: THEORETICAL BASIS OF LEARNING WITH
TECHNOLOGY**

Date: 4th May, 2016

Time: 2.00 - 5.00pm

INSTRUCTIONS:

- Answer ANY FOUR Questions.

QUESTION ONE

- a). Critically examine five contributions of constructivism theory to computer based learning. (10 marks)
- b). Describe using five ways in which teachers use behaviorism theories in technology based learning. (5 marks)

QUESTION TWO

- a). Giving five reasons, justify the need for teachers to integrate technology in classroom instruction. (10 marks)
- b). Describe five weaknesses you may encounter while using technology in learning and teaching in one of your teaching subjects (5marks)

QUESTION THREE

- a). Use the cone of experience by Edgar Dale to illustrate how technology has influenced curriculum planning. (10 marks)
- b). Using examples explain how KICD has incorporated technology integration in secondary school curriculum. (5 marks)

QUESTION FOUR

- a). Explain with the help of a labeled diagram how information processing models are contributing to classroom technology integration. (10 marks)
- b). Describe any two weaknesses and three strengths of using the direct teaching model in technology integration in class. (5 marks)

QUESTION FIVE

- a). Describe any five stages in the application of cost benefit analysis that could be used to justify the choice of a school technology project (10 marks)
- b). Justify any five areas of cost that a school is likely to incur while implementing a technology project. (5 marks)

QUESTION SIX

- a). Explain how the Substitution Augmentation Modification Redefinition (SAMR) model by Ruben Puentedura (2006) can be used by a classroom teacher to enrich classroom experience (5 marks)
- b). Describe how a teacher might impact on the teaching and learning process at each of the SAMR levels. (10 marks)