



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL COMMUNICATION TECHNOLOGY &
EARLY CHILDHOOD EDUCATION

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

DOCTOR OF PHILOSOPHY IN EDUCATION

*ECT 903: INFORMATION PROCESSING MODELS OF TEACHING &
LEARNING*

DATE: 24/3/2022

TIME: 9:00 – 12:00 NOON

INSTRUCTIONS

ANSWER QUESTION ONE & ANY OTHER TWO QUESTIONS BELOW

QUESTION ONE

- a) Briefly identify at least **FOUR Teaching Strategy** Families of Models of Teaching and Learning Process. (5 marks)
- b) Explain the roles of Models of Teaching with respect to the Learner. (5 marks)
- c) Differentiate between extrinsic and intrinsic motivation (5 marks)

QUESTION TWO

Critically analyze the operations of the following Models of Teaching:

- a) The Social Family Model
- b) The Information Processing Family
- c) The Personal Family
- d) The Behavioral Systems Family

(15 marks)

QUESTION THREE

Evaluate some of the Basic processes used in the information processing models of Teaching. (15 marks)

QUESTION FOUR

Write short notes of some of the basic skills of Information Processing Models of Teaching mentioned below. (15 marks)

Skills of Information Processing Models of Teaching.

- a) Observation (5 marks)
- b) Inference (5 marks)
- c) Generalization (2 marks)
- d) Predictive inference (1 mark)
- e) Explanatory inference and (1 mark)
- f) Hypothesizing (1 mark)

QUESTION FIVE

Critically analyze the following Information Processing Models of Teaching based on their philosophical values of Lesson Plans

- a) Advance Organizers (5 marks)
- b) Mastery Learning Strategy (5 marks)
- c) Taba Model of Teaching (5 marks)