



MACHAKOS UNIVERSITY

University Examinations 2017/2018

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY, SPECIAL NEEDS EDUCATION
AND EARLY CHILDHOOD EDUCATION

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DOCTOR OF
PHILOSOPHY IN EDUCATIONAL PSYCHOLOGY

EPS 907: HUMAN LEARNING

DATE:WEEKEND

TIME:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (20 MARKS)

- a) What makes the learning-teaching process dynamic especially in the 21st century (3 marks)
- b) How does the forgetting curve account for learners' inability to remember acquired knowledge? (5 marks)
- c) Explain the assumptions of Piaget's theory on learning (4 marks)
- d) Using relevant examples differentiate between algorithm and the heuristic approaches to problem solving? (4 marks)
- e) Giving a relevant classroom example, explain how the expectancy-value theory would account for motivation in learning. (4 marks)

QUESTION TWO (15 MARKS)

Evaluate any **Three (3)** of the following psychological theories of motivation:

- a) Maslow's motivational hierarchy theory
- b) Instinct theory
- c) Incentive theory
- d) Need reduction theory (15 marks)

QUESTION THREE (15 MARKS)

- a) Compare and contrast the biological and psychological theories of motivation (8 marks)
- b) Outline the basic assumptions of Maslow's theory of motivation. (7 marks)

QUESTION FOUR (15 MARKS)

- a) With the use of appropriate examples, expound on the following three types of memories:
 - i. Episodic
 - ii. Semantic
 - iii. Procedural (6 marks)
- b) Briefly explain what happens in the processing of information before transmission to long term memory for permanent storage. (9 marks)

QUESTION FIVE (15 MARKS)

- a) Compare and contrast intrinsic and extrinsic motivation. (7 marks)
- b) Explain the reasons why teachers in the 21st Century have no choice but to embrace Information Technology (IT) in the teaching learning process. (8 marks)



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FIRST YEAR SECOND SEMESTER EXAMINATION FOR DOCTOR OF
PHILOSOPHY IN EDUCATIONAL PSYCHOLOGY

EPS 906: SCIENTIFIC WRITING AND PUBLICATION IN EDUCATIONAL
PSYCHOLOGY

DATE:WEEKEND

TIME:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (20 MARKS)

- a) Citing appropriate examples, differentiate between the following terms:
- i. Purpose of research and research objectives
 - ii. Sample and population
 - iii. Stratified and systematic sampling
 - iv. Limitations and delimitation of study
 - v. Theoretical and conceptual framework
 - vi. Extraneous and control variables (6 marks)
- b) Explain the major considerations that you must make in writing or designing a good research questionnaire. (4 marks)
- c) Giving an appropriate example, explain the meaning of the term operational definition (2 marks)
- d) Explain the criteria that should inform your evaluation on a well written or conceptualized:
- i. Research topic

- ii. Chapter introduction
- iii. Objectives of study
- iv. Background to the study (8 marks)

QUESTION TWO (15 MARKS)

- a) Explain what you can do as a researcher in the process of identifying a researchable problem before embarking on serious proposal writing. (9 marks)
- b) Citing suitable examples, explain the various sources of a research problem. (6 marks)

QUESTION THREE (15 MARKS)

Briefly assess the various sections of a scientific manuscript/paper in accordance with APA style guidelines. (15 marks)

QUESTION FOUR (15 MARKS)

- a) What is the role of a styles manual in scientific writing in research. (3 marks)
- b) Briefly outline the APA style guidelines on the following:
 - i. Research title/topic
 - ii. Use of language
 - iii. Table format
 - iv. Referencing (12 marks)

QUESTION FIVE (15 MARKS)

- a) Differentiate between primary and secondary sources of literature that should inform scientific research writing. (4 marks)
- b) Briefly explain the information that you must extract in the process of reviewing past research related to your problem. (5 marks)
- c) Evaluate the criteria you can use to decide about the literature review to include in your study? (6 marks)