



EMBU UNIVERSITY COLLEGE

(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

FIRST SEMESTER EXAMINATIONS 2014/2015

**SECOND YEAR EXAMINATION FOR THE DEGREES OF BACHELOR OF SCIENCE
IN AGRICULTURAL EDUCATION AND EXTENSION**

TCT201: INSTRUCTIONAL TECHNOLOGY

DATE: DECEMBER 15, 2014

TIME: 13:30 – 15:30

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE

- a) Suggest four ways in which a teacher can use her/his body effectively to demonstrate non-verbal communication (4 marks)
- b) Teaching and learning are greatly influenced by the psychological theories. Briefly explain the behaviourism as a theory for instruction. (3 marks)
- c) Instructional technology is influenced by other fields of study in a great way. Clearly demonstrate the way in which English language influences instructional technology. (4 marks)
- d) There are basically three categories of media and materials that a teacher can use to facilitate learning. Give an account of the roles played by media and materials in instruction (5 marks)

- e) Audio media and materials appeal to the sense of hearing. Briefly explain the four stages where the information can be lost while being transmitted by use of audio media (4 marks)
- f) Briefly explain the concept of research perspective as a theoretical foundation of instructional technology (3 marks)
- g) Briefly explain two ways in which one can develop visual literacy (4 marks)
- h) Describe any three advantages of learning resource centres in schools (3 marks)

QUESTION TWO

- a) Briefly explain the advantages of using real objects in teaching and learning (6 marks)
- b) Audio media can be used in all stages of teaching from introduction of the lesson, development of the main body of the lesson, summarizing the lesson as well as evaluating the learners. Give an account of the skills required by the teacher in order to effectively use the audio media for teaching. (8 marks)
- c) Discuss the various types of verbal elements/cues that need to be considered in a visual preparation in order to achieve a good visual design (6 marks)

QUESTION THREE

- a) Lettering is the art or science of using letters to form words and it is a very important aspect of written, visual communication. Clearly explain the factors that affect lettering (7 marks)
- b) Give an account of the ASSURE approach as a guideline for effective preparation and use of teaching and learning resources. (13 marks)

QUESTION FOUR

- a) Graphics are two dimensional materials that summarizes significance information. Clearly describe the criteria for a good graphic (7 marks)
- b) Briefly explain the role of visual media in teaching and learning (7 marks)
- d) Learning resource centre is an individualised environment designed to encourage students to assume major responsibilities for their own learning. Give an account of major application of teaching / learning resource centre (6 marks)

QUESTION FIVE

- a) Briefly explain the roles played by computers in teaching/learning (7 marks)
- b) i) What do you understand by the term visual pattern (1 mark)
- ii) Explain the factors that determine visual pattern in visual preparation (12 marks)

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