

UNIVERSITY OF SWAZILAND
FACULTY OF EDUCATION
DEPARTMENT OF CURRICULUM AND TEACHING
MAIN EXAMINATION QUESTION PAPER (NOVEMBER/DECEMBER, 2017)
CTE 301: INFORMATION AND COMMUNICATION TECHNOLOGY IN
EDUCATION

DURATION: THREE (3) HOURS

INSTRUCTIONS:

1. This paper contains five (5) questions. Answer any four (4) questions.
2. Each question has a total of 25 marks.

**THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATOR**

QUESTION ONE

- a) Provide a succinct definition of the acronym ICT, in line with the corresponding Greek/Latin derivatives. [10 marks]
- b) Four (4) main types of teleconferencing are discernable, based on the nature and extent of interactivity desired as well as the level of sophistication of technology adopted. Identify and explain the four (4) types, within the context of educational computing. [15 marks]

QUESTION TWO

Discuss the effects of ICTs in teaching and learning in any one of your teaching subjects.

[25 marks]

QUESTION THREE

Discuss the theories supporting the paradigm shift in the teaching-learning process, on which Computer Science is underpinned, as propounded by the following proponents:

- a) Vygotsky's socio-cultural theory [09 marks]
- b) Jean Piaget [08 marks]
- c) Jerome Bruner [08 marks]

QUESTION FOUR

Identify and discuss eight (8) major challenges that bedevil ICT integration in teaching and learning, suggesting ways of ameliorating the challenges mentioned thereof.

[25 marks]

QUESTION FIVE

- a) Discuss five (5) main educational benefits of computer simulations in any one of your teaching subjects. [10 marks]
- b) Select a topic in your major teaching subject and detail how you would prepare an e-portfolio to enhance its teaching and learning. [15 marks]