UNIVERSITY OF SWAZILAND

FACULTY OF EDUCATION

DEPARTMENT OF CURRICULUM AND TEACHING

MAIN EXAMINATION QUESTION PAPER (NOVEMBER/DECEMBER, 2017)

TITLE OF PAPER: CURRICULUM STUDIES IN COMPUTER SCIENCE I

COURSE CODE: CTE 537

PROGRAMME: PGCE

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) ICT is to IT as library is to books and screen displays. Examine this assertion in the attempt to distinguish between the two concepts, citing suitable illustrations. [10 marks]

b) The main aim of Swaziland secondary school Computer Science education can be summarized as "the provision of learners with a firm foundation of computer literacy". Briefly explain basic exit competences demonstrable by a computer literate learner. [10 marks]

c) "Think-share-pair" method is key in the teaching and learning of Computer Science. Justify this statement within the context of any topic of your choice from the approved Swaziland secondary school Computer Science syllabus. [05 marks]

QUESTION TWO

The following guidelines or practices enhance effective implementation of the Computer Science syllabus. Critically examine each one of them. [25 marks]

a) Basic skills [08 marks]

b) Practicals [08 marks]

c) Visit to relevant organizations [09 marks]

QUESTION THREE

The topic 'Introduction to Computers' has been derived from the secondary school Computer Sceince syllabus. The content is contained in the course book entitled 'Computer Science for Secondary Schools', by Dr. J. Dlamini, and published in Mbabane by Macmillan. From the information provided:

a) Design a scheme of work to teach the topic for one (1) week. [15 marks]

b) From the scheme of work designed, derive a lesson plan to teach any sub-topic or concept. [10 marks]

QUESTION FOUR

Discuss the role played by educational computing in the attainment of any 5 (five) national goals of education in Swaziland. [25 marks]

QUESTION FIVE

a) "Teachers should not underestimate the significance of formative evaluation in Computer Science". Justify this preposition. [10 marks]

b) Discuss ways in which feedback can be made more effective after an evaluation in Computer Science. [15 marks]