

# UGANDA MARTYRS UNIVERSITY

UNIVERSITY EXAMINATIONS

FACULTY OF SCIENCE

## DEPARTMENT OF COMPUTER SCIENCE & INFORMATION SYSTEMS

END OF SEMESTER FINAL ASSESSMENT

SEMESTER II, 2022/23

THIRD YEAR EXAMINATION FOR BACHELOR OF SCIENCE WITH  
EDUCATION,

### Computer Teaching Methods II

DATE: 26<sup>TH</sup> MAY 2023

TIME: 09:30 AM – 12:30 PM

DURATION: 03.00 HRS

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#### **Instructions:**

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1. Carefully read through *ALL* the questions before attempting.
2. Ensure that your **Reg number** is indicated on all pages of the examination answer booklet.
3. Leave a space or line before answering the next number.
4. Ensure your work is **clear** and **readable**. Untidy work shall be penalized 5. Any type of examination Malpractice will lead to automatic disqualification
6. Attempt any **FOUR** Questions in the examination.

### ATTEMPT ANY FOUR QUESTIONS

1. (a) In Third World countries like Uganda, most school Computer Laboratories are managed and sometimes maintained by the ICT or Computer teachers. As an ICT or Computer teacher, outline the Procedures and Guidelines you would recommend to the school administration for the proper management and maintenance of the school computer lab or labs. Use examples and illustrations where possible in order to enable us appreciate your arguments. (15 marks)  
(b) From your guidelines in given (a) above, identify what you will pin up or post as the "Computer Lab Rules" or "Computer Lab Regulations". For each one of these regulations, give a brief explanation as to why it is needed in the rules. (10 marks)
2. Teaching strategies are categorised as being Participatory or Deductive.  
(a) Briefly compare and contrast Participatory and Deductive teaching strategies. In your comparison, give examples where each strategy can be appropriately employed in the classroom setting. (5 marks)  
(b) Choose any FIVE of the Participatory Teaching Strategies. For each strategy, discuss how it is applied in the teaching and learning process, outline the most appropriate topics, subjects, and/or fields of study where it can be applied. With examples, point out its limitations. (20 marks)
3. Choose any TWO Computer laboratory designs or layouts. For each of these TWO layouts, discuss the physical topological set up, how it is used, under which circumstances it is useful and so on. Explain how it affects or effects the teaching of ICT or Computer. Outline its advantages and disadvantages. (25 marks)

4. Today's education curriculum is moving from a Knowledge-based curriculum to a competence and Skills-based curriculum. Extensively discuss this statement with respect to the Knowledge-based Curriculum and the Competence-Based Curriculum. In your discussion, make a detailed comparison of the two in terms of the following:

- Teacher's activities
- Learner's activities
- Learner's assessment and evaluation
- Modes or techniques of teaching and learning, etc. (20 marks)

(b) In your own view, what are any FIVE of the many reasons why the ICT/Computer Science Syllabus in a Secondary School is designed? (5 marks)

5. Make a detailed discussion of the considerations that need to be made when planning the design of a Computer laboratory for a secondary school. In your discussion, outline both the Teacher considerations and the Student considerations. (25 marks)

**END**