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University Examinations 2023/2024

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE POST GRADUATE
DIPLOMA IN EDUCATION**

ECG 4156: COMPUTER STUDIES SUBJECT METHODS

DATE: DECEMBER 2023

TIME: 2 HOURS

INSTRUCTIONS: *Answer question **one** and any other **three** questions*

QUESTION ONE (30 MARKS)

- a) Outline any four professional duties of a teacher (4 marks)
- b) Describe any four situations when children are learning (4 marks)
- c) Describe three ways a teacher can employ effective teaching skills (6 marks)
- d) Describe situation necessary to use the following learning activities (6 marks)
 - i. Questions and answer
 - ii. Group work
 - iii. Demonstration
- e) Describe four ways of motivating learners (4 marks)
- f) Describe any three ways you would facilitate learner's motivation? (6 marks)



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QUESTION TWO (20 MARKS)

- a) Discuss the importance of reflection in teaching and how it can improve the quality of teaching (6 marks)
- b) Use a diagram to illustrate a lab layout that will facilitate effective monitoring of work done by students (4 marks)
- c) Discuss learners' diversity and how it can be an opportunity and challenge to a teacher (6 marks)
- d) Identify a sub-topic in secondary syllabus then identify three lesson objectives for the identified sub-topic (4 marks)

QUESTION THREE (20 MARKS)

- a) Describe materials you will use for effective teaching of the topic “type of network cables” indicating the importance of each material (4 marks)
- b) Design a lesson plan for an academic trip based on the sub-topic “areas where the computer is used” (6 marks)
- c) Briefly explain the meaning and importance of constructivism learning approach (6 marks)
- d) Use examples to describe how the internet can be used to facilitate learning (4 marks)

QUESTION FOUR (20 MARKS)

- a) When teaching a sub-topic “Input devices” explain how you will capture learners' attention by linking the topic to learners' experience (4 marks)
- b) Use a diagram to illustrate any two computer laboratory layouts giving two advantages and two disadvantages for each layout (6 marks)
- c) Differentiate between extrinsic and intrinsic needs when motivating learners (4 marks)
- d) Identify an ICT project of your choice and write the topic and the current manual system



QUESTION FIVE (20 MARKS)

- a) The government planned to have primary school's students to use laptops to enhance learning in 2014. However, the project was not successfully implemented. Discuss why the project failed and what are the best approaches that can be employed to ensure success of such projects (6 marks)
- b) Use a sub-topic "output devices" to develop
- i. Schemes of work (7 marks)
 - ii. Lesson plan (7 marks)



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