

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF EDUCATION
BACHELOR OF EDUCATION HONOURS IN NATURAL SCIENCES
DEGREE PROGRAMME - 2023/2024
FINAL EXAMINATION - 2024
STU5816 – EDUCATIONAL TECHNOLOGY FOR TEACHING SCIENCE &
MATHEMATICS
DURATION – THREE (03) HOURS



Date: 18.12.2024

Time: 1.30 p.m. – 04.30 p.m.

This question paper consists of two parts. Students should answer all the question of the Part I and any three (03) questions from part II.

PART – I

01. Explain educational technology in your own words using an acceptable definition.
02. Mention **five (05)** factors that a teacher should consider when integrating new technology into the teaching and learning process.
03. Briefly compare educational technology and technology for education.
04. Briefly explain the term “teaching system” and name **three (03)** teaching systems commonly used in schools.
05. Explain the importance of lesson plans in ensuring an effective teaching and learning process, using **five (05)** key factors.
06. Discuss the need for multimedia in the teaching and learning process, providing **two (02)** suitable examples.
07. Briefly explain how your role should change when preparing as a facilitator’s role.
08. Provide examples of **two (02)** concrete experiences and **two (02)** abstract experiences as represented by Dale’s Cone of Experience.

(5 x 8 = 40 marks)

PART – II

09. “Teacher preparation is essential for delivering a successful lesson.”
 - i. List **five (05)** key considerations a teacher should focus on when planning a lesson.
(05 marks)
 - ii. Briefly explain the significance of teacher preparation in ensuring an effective lesson.
(05 marks)

- iii. Suppose you have prepared very well to teach a Grade 6 lesson outdoors, aligned with the subjects you teach (Drama and Performing Arts/Science/Mathematics). However, unexpected heavy rain disrupts your plans. Discuss how you would adapt to this situation and ensure the lesson remains effective. (10 marks)
10. i. Explain why teaching aids are important for successful learning. (05 marks)
- ii. Select a lesson related to the subject you teach (Drama and Performing Arts/Science/Mathematics) at the junior secondary level. Suggest a teaching aid you plan to use to teach the subject and name it. (05 marks)
- iii. Justify why you have chosen the particular teaching aid. (10 marks)
11. “Information and communication technology (ICT) plays a crucial role in modern education”
- i. List **four (04)** safety measures to consider when using the internet in teaching and learning. (04 marks)
- ii. Provide **two (02)** examples to illustrate why ICT knowledge is essential for every teacher in making the teaching and learning process effective. (08 marks)
- iii. Give **two (02)** examples of how ICT can be effectively utilized to enhance teaching and learning. (08 marks)
12. i. Compare **three (03)** differences between general teaching methods and special teaching methods. (03 marks)
- ii. Highlight **four (04)** reasons why teaching techniques are important for a successful teaching and learning process. (08 marks)
- iii. Name **three (03)** appropriate teaching techniques for the subject you teach (Drama and Performing Arts/Science/Mathematics) and explain how one of them can be used in lesson development, detailing the steps. (09 marks)
13. “Lesson evaluation is mandatory at the end of each lesson”
- i. Using a suitable example, explain how you recognized the importance of lesson evaluation during your preparation as a pre-service teacher. (08 marks)
- ii. Discuss your role in evaluating and assessing a lesson, providing an example from a practical lesson in the subject you teach and (Drama and Performing Arts/Science/Mathematics) (12marks)

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