

THE OPEN UNIVERSITY OF SRI LANKA
 FACULTY OF EDUCATION
 DEPARTMENT OF SECONDARY AND TERTIARY EDUCATION
 POSTGRADUATE DIPLOMA IN EDUCATION PROGRAMME 2024/2025
 FINAL EXAMINATION (PHASE I)
 STP8404/STP8504/ESP2204 – EDUCATIONAL TECHNOLOGY FOUNDATIONS
 DURATION – THREE (03) HOURS



Date: 04.05.2025

Time: 9.30 a.m. – 12.30 p.m.

- This question paper consists of three parts.
- Students should answer **all** the questions of the part I and **any two** questions from Part II (09-12), and **any two** questions of Part III (13-16 Special Method).
- Altogether, students should answer for 12 questions out of 16 questions.
- You should clearly mention the selected subject for special methods (selected for Part III) on the top right corner of the front page of the answer script.

PART I

01. Briefly explain the difference between “Learning about Technology”, “Learning from Technology”, and “Learning with Technology”.
02. The teaching and learning process can be viewed as a communication cycle, where information is exchanged between the sender and the receiver. Mention **five (05)** methods that you can use to maintain effective communication with students during the teaching-learning process.
03. Generative Artificial Intelligence (GenAI) is increasingly used in education. Name **two (02)** GenAI tools you could use in your teaching and state **three (03)** ethical practices you should follow when using these tools in the classroom.
04. Briefly explain what “meaningful learning” is, and state **four (04)** strategies you would use to promote meaningful learning among your students.
05. Developing a lesson plan is essential for effective teaching. Briefly explain **five (05)** ways in which a well-prepared lesson plan helps you to deliver a successful lesson.
06. Define the term “Learning Outcome” and briefly describe **four (04)** aspects to consider when writing learning outcomes for a lesson in your teaching subject, with an example.
07. Identify **three (03)** challenges you have experienced in integrating new technology into your teaching. For each challenge, suggest **one (01)** practical solution to overcome it.
08. Briefly explain what “Dale’s Cone of Experience” is, and state **four (04)** advantages of using it when planning your lessons.

(5 x 8 = 40 marks)

PART II

09. i. Explain **two (02)** benefits of collaborative learning for student-centered classrooms. (04 marks)
- ii. Select a lesson from a subject that you teach and design a collaborative learning activity specifying tasks to ensure equal participation among all students. (05 marks)
- iii. Analyze **two (02)** potential issues that may arise when implementing collaborative learning activities in your lesson and how you would address them. (06 marks)
- (Total 15 marks)
10. i. Explain **four (04)** factors that a teacher should consider when selecting teaching-learning aids. (04 marks)
- ii. Classify different types of teaching aids and briefly explain each type providing examples. (05 marks)
- iii. Critically evaluate the statement "Teaching-learning aids should not be just supplementary tools but essential components to support knowledge construction among students". Support your answer with **there (03)** relevant examples. (06 marks)
- (Total 15 marks)
11. i. Describe the 4 C's of 21st century learning skills and explain their significance in contemporary education. (04 marks)
- ii. Select a lesson from a subject you teach and describe how you would integrate technology to develop 4 C's among students. providing specific examples. (05 marks)
- iii. Mention **three (03)** key challenges you might face when integrating technology to enhance 4 C's among students in your classroom, and propose actionable strategies to address these challenges. (06 marks)
- (Total 15 marks)

12. i. Differentiate the concepts of “whole-class teaching” and “group teaching” by explaining each concept and providing specific examples for each from your classroom setting. (04 marks)
- ii. Discuss **four (04)** strategies that you, as a teacher, would use adopt to implement group teaching effectively. Support each strategy with an example from your real classroom setting. (05 marks)
- iii. List **three (03)** common challenges teachers face when using group teaching and propose practical solutions to overcome them. Illustrate your solutions with examples. (06 marks)
- (Total 15 marks)

PART III

13. i. Briefly describe the concept of TPACK indicating the **three (03)** key components of the TPACK framework and explain its importance in the effective teaching of your subject. (06 marks)
- ii. Select a lesson topic from your subject and design a lesson plan based on the TPACK framework, and explain how you will integrate the three key components of TPACK in your lesson. (05 marks)
- iii. State **two (02)** potential challenges in implementing TPACK in your lesson described in part (ii) and propose practical solutions to address these challenges. (04 marks)
- (Total 15 marks)
14. i. Remote learning activities became popular among teachers and school children after the COVID-19 pandemic. Explain **two (02)** video conferencing tools and **two (02)** online assessment tools that you can use with your students for remote learning in relation to the subject you teach. (04 marks)
- ii. Describe **five (05)** strategies that can be used to enhance student engagement when conducting online lessons with video conferencing tools. (05 marks)
- iii. List out **three (03)** challenges you might face when using video conferencing tools for online teaching, and how would you minimize each of them to ensure a smooth learning experience for your students. (06 marks)
- (Total 15 marks)

15. i. Define the Project Method of teaching and list **three (03)** key characteristics that distinguish it from traditional instructional methods. (05 marks)
- ii. Select a lesson from your subject and design a project-based learning experience that includes measurable learning outcomes, student learning activities, and appropriate assessment tasks. (06 marks)
- iii. Discuss **two (02)** challenges you might face when implementing the above, and propose specific strategies to overcome them. (04 marks)
- (Total 15 marks)
16. i. Explain the concept of “Constructive Alignment”, and its importance in designing learning experiences for your students. (05 marks)
- ii. Select a lesson topic from your subject and design a detailed learning experience that reflects constructive alignment in your lesson. (06 marks)
- iii. Describe **two (02)** potential challenges in implementing this lesson plan and propose practical solutions to overcome them. (04 marks)
- (Total 15 marks)

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