

**FINAL EXAMINATION****BACHELOR OF EARLY CHILDHOOD EDUCATION (HONOURS)****COURSE : INSTRUCTIONAL TECHNOLOGY FOR
YOUNG CHILDREN****COURSE CODE : ECC1043****DURATION : 3 HOURS****INSTRUCTIONS TO CANDIDATES:**

1. This question paper consists of **THREE (3)** parts: PART A (20 questions)
PART B (3 questions)
PART C (2 questions)
2. Answer **ALL** questions from PART A, PART B and PART C.
 - i. Answer PART A in the Objective Answer Sheet.
 - ii. Answer PART B and C in the Answer Booklet provided.
3. Please check to make sure that this examination pack consists of:
 - i. The Question Paper
 - ii. An Objective Answer Sheet
 - iii. An Answer Booklet
4. Do not bring any writing material into the examination hall.
5. Please write your answer using permanent ink.

MYKAD/ PASSPORT NO : _____

ID. NO. : _____

LECTURER : _____

SECTION : _____

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO

This question paper consists of 11 printed pages including the front page

PART A: MULTIPLE CHOICE QUESTIONS

Answer ALL questions.

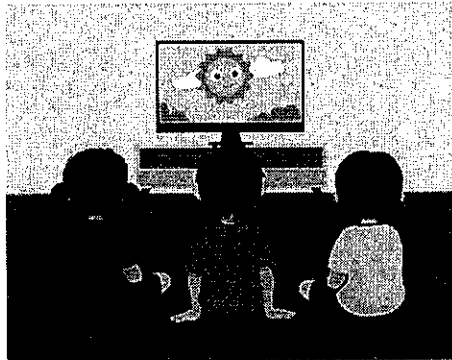
1. A computer is an electronic device that accepts _____, processes it, stores information, and produces meaningful output.

A. data
B. sound
C. images
D. electricity

2. Which software application is suitable for creating interactive teaching material with animations for young children?

A. Microsoft Excel
B. Microsoft Word
C. Microsoft Access
D. Microsoft PowerPoint

3.



Picture 1

Which multimedia element is **MOST** clearly shown in the picture 1?

- A. Text
- B. Data
- C. Audio
- D. Animation

4. Multimedia refers to applications that combine text, graphics, audio, video, and _____.

- A. database
- B. hardware
- C. animation
- D. spreadsheet

5.



Picture 2

The activity shown in the picture above is an example of _____ maintenance.

- A. data
- B. internet
- C. software
- D. hardware

6. Which of the following describes the role of ICT in Early Childhood Education?

- A. ICT limits children's creativity.
- B. ICT replaces traditional play-based learning.
- C. ICT should only be used by school administrators.
- D. ICT supports and enhances teaching and learning experiences.

7. "Educational technology in ECE is not about replacing traditional play-based learning; it is a tool used to achieve specific learning objectives."

This statement refers to the characteristic of Educational Technology being _____.

- A. Multi-Sensory and Passive
- B. Random and Spontaneous
- C. Teacher-Centered and Rigid
- D. Goal-Oriented and Purposeful

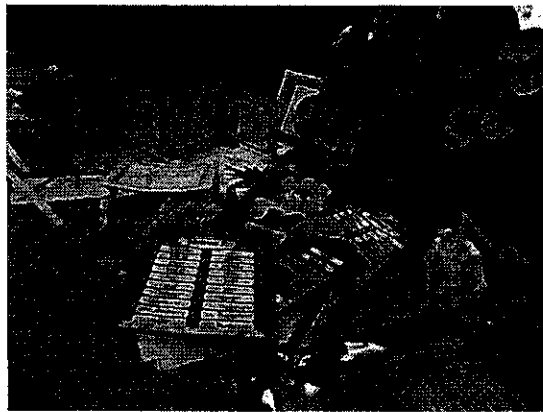
8. Educational technology provides several roles and benefits in a TASKA/TADIKa environment. Identify the correct roles:
- i. Strengthens teacher creativity and innovation.
 - ii. Supports individual and differentiated learning.
 - iii. Increases children's motivation and engagement.
 - iv. Replaces the need for social interaction between children.
- A. i, ii, and iii
B. i, ii, and iv
C. ii, iii, and iv
D. All of the above
9. Which type of teaching resource specifically combines digital technology with physical materials, such as using a counting app followed using real wooden blocks to reinforce a concept?
- A. Visual-Only Resources
B. Audio-Visual Resources
C. Multimedia Learning Resources
D. Blended Teaching and Learning Resources
10. In the context of Early Childhood Education, if a teacher is currently "creating the actual digital storybook and recording the voiceovers" based on a pre-planned storyboard, which phase of the model shown above are they performing?
- A. Design
B. Analysis
C. Evaluation
D. Development

11. Based on this systematic approach, which of the following steps are involved in the Dick and Carey Model?

- i. Identify Instructional Goals.
- ii. Conduct Instructional Analysis.
- iii. Analyze Learners and Context.
- iv. Write Performance Objectives.

- A. i and ii only
- B. i, ii, and iv only
- C. ii, iii, and iv only
- D. All of the above

12.

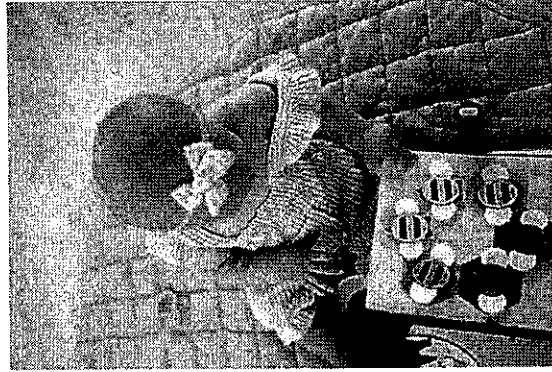


Picture 3

According to the principles of Developmentally Appropriate Practice (DAP), what is the primary reason for preparing such a resource?

- A. To replace the teacher's role in the classroom.
- B. To ensure the technology is used for entertainment only.
- C. To reduce the time children spend interacting with peers.
- D. To support a multi-sensory learning approach that attracts and engages children.

13.



Picture 4

Which reason explains why this material is suitable for TASKA children?

- A. It encourages competitive learning.
- B. It focuses on academic assessment.
- C. It prepares children for formal examinations.
- D. It supports sensory exploration and age-appropriate learning.

14. Teaching and learning materials for TASKA and TADIKA must be safe, non-toxic, and _____ to prevent harm to children.

- A. digital
- B. durable
- C. colourful
- D. interactive

15. "Computer Aided Teaching and Learning (CATL) uses multimedia elements to support children's understanding and engagement."

Based on the statement, which activity reflects CATL use at the TADIKA level?

- A. Children memorizing words from a textbook.
- B. Watching a teacher write on the whiteboard.
- C. Using animated alphabet videos with sound.
- D. Completing written worksheets independently.

16. Which of the following ICT practices support balanced and responsible use in early childhood education?

- i. Limiting screen time.
- ii. Allowing unrestricted device use.
- iii. Replacing physical play with apps.
- iv. Combining ICT with hands-on activities.

- A. i and ii
- B. i and iv
- C. ii and iii
- D. iii and iv

17. What is the main purpose of preparing an inventory for teaching and learning materials?

- A. To decorate the classroom
- B. To reduce children's playtime
- C. To record and track available resources
- D. To replace damaged materials immediately

18. "Proper storage of teaching materials helps create a safe and organized learning environment."

Which practice best supports the statement above?

- A. Keeping all materials locked in a cupboard.
- B. Placing materials on the teacher's desk only.
- C. Allowing children to store materials anywhere.
- D. Using labelled boxes and child-friendly shelves.

19. When a teacher uses technology to help children build interpersonal skills and empathy through collaborative digital projects, which domain of development is being specifically nurtured?

- A. Social Development
- B. Creative Development
- C. Physical Development
- D. Intellectual Development

20. Identify the correct trends associated with the future workplace of Early Childhood Education practitioners:

- i. Administrative work like attendance and progress records becomes digital.
 - ii. Teachers act solely as information providers rather than digital facilitators.
 - iii. Cloud platforms are used for sharing lesson plans and collaborative resources.
 - iv. Continuous upskilling through online ECCE certification and professional development.
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- A. i, ii, and iii
 - B. i, iii, and iv
 - C. ii and iv only
 - D. All of the above

(TOTAL: 20 MARKS)

PART B: STRUCTURED

Answer **ALL** questions.

QUESTION 1

As a teacher in a TADIKA, you are required to set up a digital learning corner. This involves understanding how computer systems function and selecting the right software to manage your classroom effectively.

- a. Define the term "Information and Communication Technology (ICT)" in the context of Early Childhood Education.

(2 marks)

- b. List the **FOUR (4)** main components of a computer system.

(4 marks)

- c. Explain **THREE (3)** importance of computer maintenance.

(6 Marks)

- d. Elaborate **FOUR (4)** multimedia elements.

(8 Marks)

(Total: 20 marks)

QUESTION 2

Educational Technology in Early Childhood Education is defined as the systematic application of tools, processes, and resources designed to enhance the quality of teaching and learning. It is characterized by being goal-oriented, interactive, and child-centered, ensuring that digital tools are used intentionally to meet developmental milestones rather than serving as passive entertainment.

- a. List **FIVE (5)** benefits of educational technology for children in a TASKA or TADIKA setting.

(5 marks)

- b. State **FIVE (5)** importance of educational technology for young children.

(5 marks)

(Total: 10 marks)

QUESTION 3

ICT applications support children's learning through visuals, sounds, animations, and simple interactions, which are suitable for their developmental stages. However, ICT should be used as a supporting tool, not a replacement for play, social interaction, or hands-on experiences.

- a. Define the meaning of Computer Aided Teaching and Learning (CATL).
(2 marks)
- b. State **THREE (3)** impact of different learning style using ICT.
(3 marks)
- c. List **FIVE (5)** examples of ICT applications in classroom.
(5 marks)

(Total: 10 marks)

(TOTAL: 40 MARKS)

PART C: ESSAY

Answer ALL questions.

QUESTION 1

In Early Childhood Education, teachers must carefully choose digital tools to ensure they are safe and educational. A teacher acts as a 'gatekeeper' to make sure that any app or video used in the classroom is suitable for a child's age, follows the school curriculum, and protects the child's privacy.

As a senior teacher at a TADIKA, you are responsible for choosing new learning applications for your school. Analyze the **FIVE (5)** essential criteria for the selection and screening of digital teaching materials to ensure they are developmentally appropriate and safe for young learners.

(20 Marks)

QUESTION 2

The digitalization of education has brought significant changes to both teaching methods and teacher training. Discuss **FIVE (5)** impacts of current trends in technology, training, and education within the TASKA and TADIKA settings.

(20 Marks)

(TOTAL: 40 MARKS)

(TOTAL: 100 MARKS)

END OF QUESTION PAPER

