

**AUGUST 2023
EBS 337
ICT INTEGRATION IN EDUCATION
2 HOURS**

Candidate's Index Number
Signature:

**UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION**

**COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, AUGUST 2023**

16TH AUGUST 2023 ICT INTEGRATION IN EDUCATION 2:00 PM – 2:30 PM

This paper consists of two sections, A and B. Answer ALL the questions in Section A and TWO questions from Section B. Section A will be collected after the first 30 minutes.

**SECTION A
(20 MARKS)**

Answer ALL questions in this Section.

For items 1 to 10, each stem is followed by four options lettered A to D. Read each item carefully and circle the letter of the correct or best option.

1. In the ADDIE model of instructional design, "I" stands for
 - A. Implement.
 - B. Influence.
 - C. Infuse.
 - D. Instructional analysis.
2. This term describes computer software or devices used by people with special needs to enable them to access the services provided by ICT. technology
 - A. Assistive
 - B. Educational
 - C. Instructional
 - D. Productivity
3. A computer-based communications system that allows a group of computer users at different locations to conduct a "virtual conference" in which the participants can hear one another using the internet is called
 - A. audioconferencing.
 - B. authoring package.
 - C. blackboard.
 - D. videoconferencing.

4. This term normally refers to combining Internet-based distance learning with face-to-face tuition but it may also be used to describe combining offline ICT-based materials with more traditional materials.
 - A. Blended learning
 - B. Computer Aided Assessment
 - C. Data Driven Learning
 - D. Distance learning

5. A form of learning that takes place where the teachers and the students are in physically separate locations.
 - A. Blended learning
 - B. Computer Aided Assessment
 - C. Data Driven Learning
 - D. Distance learning

6. The extension of the hypertext concept to multimedia, describing the combination of multimedia information (text, images, audio, video, etc) in a meaningful configuration, which is especially useful for teaching and learning is known as
 - A. hyperlink.
 - B. hypermedia.
 - C. hypertext.
 - D. hypertext transfer protocol.

7. The integration of two or more types of information (text, images, audio, video, animation, etc.) in a single application is known as
 - A. multimedia.
 - B. multimedia PC.
 - C. multiple online learning.
 - D. multitasking.

8. A teaching and learning approach that engages students in the process of learning through activities and/or discussion in class, as opposed to passively listening to an expert is called
 - A. active learning.
 - B. asynchronous learning.
 - C. authentic assessment.
 - D. blended learning.

9. Which one of the following can be described as an umbrella term that covers many different methods in which students work together to solve a problem, complete a task, or create a product?
 - A. Cooperative learning
 - B. Flipped classroom
 - C. Hidden curriculum
 - D. Responsive pedagogy

10. Which of the following statements does **not** describe educational technology? It
 - A. includes audiovisual materials, interactive multimedia and self-instructional.
 - B. is a profession composed of various job categories.
 - C. is the development, application, and evaluation of systems to improve materials.
 - D. refers to the efficiency of teachers in using computers.

For items 6 to 17, write the appropriate responses related to technology integration in the classroom in the spaces provided.

11. According to Mind Tools, what percentage of the human population are visual learners?
.....
12. Research reports that visual aids in the classroom improve learning by what percentage?
.....
13. When an instructor uses an image to represent a timeless principle,
..... deepens and accelerates.
14. The process by which on-screen text or symbols are used to highlight important information is called
15. The chunking of information to allow learners to engage with small pieces of new information as well as to give them control over the flow of new information is known as

For items 16 to 20, match the terms associated with computer laboratory designs/layouts with the appropriate definitions or description by writing the letter of the alphabet against it in the response column.

S/N	ICT Integration Terms	Response	Definition/Description
16.	Mobile learning		A. A teaching model based on the premise that each student gets a “learning plan” based on how he learns, what he knows, and what his skills and interests are.
17.	Smartboard		B. It is created for educational purposes to archive and support student and teacher learning by facilitating reflection, questioning by self and by providing contexts for engaging in higher-order thinking.
18.	Personalized learning		C. The use of internet-based social media sites to stay connected with friends, family, colleagues, etc for the purposes of education.
19.	Edublogs		D. Education or training conducted by means of portable computing devices such as smartphones or tablet computers.
20.	Social network		E. Electronic collections of artifacts that are typically used to showcase the interests, goals, and achievements of individuals and/or groups
			F. A delivery modality for education that occurs when learners and educators are not in the same location.
			G. An interactive whiteboard that can be used for presentations, collaborations and teaching.

AUGUST 2023
EBS 337
ICT INTEGRATION IN EDUCATION
2 HOURS

Candidate's Index Number
Signature:

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, AUGUST 2023

16TH AUGUST 2023

ICT INTEGRATION IN EDUCATION

2:30 PM – 4:00 PM

SECTION B
[40 MARKS]

Answer any TWO questions from this Section.

1.
 - a. The 21st century learner loves grasping concepts with the help of educational videos as they are a more interesting and engaging way of learning. The length of time students watch streaming videos should be short. Explain why. (6 marks)
 - b. State any **three** key principles for implementing ICT in education. (6 marks)
 - c. Explain any **two** ways technology can be used to encourage individual learning. (8 marks)

2.
 - a. Explain any **three** ways by which ICT can be used to enhance teaching and learning in the classroom. (9 marks)
 - b. K-W-L is an introductory strategy that provides a structure for recalling what students know about a topic, noting what students want to know, and finally listing what has been learned and is yet to be learned. Explain how KWL charts can be used effectively in the instructional process. (7 marks)
 - c. State any **two** advantages of ICT use in the classroom. (4 marks)

3.

- a. It has been established that the use of ICT in the classroom increases knowledge retention and engagement. Explain this assertion. **(6 marks)**
- b. State **any three** advantages of using video as an instructional tool in the classroom. **(6 marks)**
- c. As a laboratory rule, one is expected to install an anti-spyware program on laboratory computers and/or network in your computer lab. Explain why this is so. **(8 marks)**