

**AKENTEN APPIAH-MENKA UNIVERSITY OF SKILLS TRAINING AND  
ENTREPRENEURIAL DEVELOPMENT**  
**FACULTY OF APPLIED SCIENCES AND MATHEMATICS EDUCATION**  
**DEPARTMENT OF INFORMATION TECHNOLOGY EDUCATION**  
**END OF SECOND SEMESTER EXAMINATIONS, AUGUST, 2021**

<b>COURSE CODE/TITLE</b>	ITC 364 - Application of IT in Education
<b>DURATION</b>	1 HOUR 40 MINUTES
<b>LECTURER(S)</b>	Dr. Adasa Nkrumah K. F.
<b>INSTRUCTIONS</b>	ANSWER ALL QUESTIONS ON THE QUESTION PAPER

**INDEX NUMBER:**

1. The background, implementation, and planning for administrative and instructional systems (applications) are different and need to be distinguished.
  - a. True
  - b. False
2. Typically speaking, engagement in learning goals is the same as engagement in using a tool or website.
  - a. True
  - b. False
3. Schools have a long tradition of being machine-oriented rather than people-oriented.
  - a. True
  - b. False
4. Increasing access to technology tools increases student engagement proportionately.
  - a. True
  - b. False
5. Customer and product database management systems in private businesses resemble student and course systems in schools; personnel, payroll, and financial database systems designed for public agencies are identical to those used in schools.
  - a. True
  - b. False

6. There has been evidence, through empirical research, that putting technology into the hands of students does guarantee improved comprehension of content or learning goals.
- True
  - False
7. Authentic engagement puts the technology choices first and the learning outcomes second.
- True
  - False
8. Researchers have found that when students are exposed to the same multimedia learning tool, those with less prior content knowledge performed significantly higher on their assessment outcomes than students with more prior content knowledge.
- True
  - False
9. One of the many reasons why technology lags is that computer manufacturers, software developers, and data processing service bureaus could not market many of the same products to schools, private industry, and government agencies.
- True
  - False
10. Environments generally change much faster than organizations.
- True
  - False
11. Regarding web 2.0 tools in writing, the actual core of learning to write and teaching writing isn't actually about the tool. It's actually about what you're going to do with the tool.
- True
  - False
12. Podcasting tries to replicate the features of a real-life journal with features like adding images with captions and with sound clips.
- True
  - False
13. Teachers must look critically for tools that help students elicit higher-cognitive thinking skills such as inquiry, hypothesis, analysis, and reflective thinking practices. This relates to

- a. Authenticity
  - b. Application of use
  - c. Co-Use
  - d. All of the above
14. Learning should be situated in contexts that are considered real, relational, and substantive.
- a. Authenticity
  - b. Application of use
  - c. Co-Use
  - d. All of the above
15. Miss Fakihatul Actulo and a student is working together to navigate a piece of learning software (rather than the student working alone on the software). This is typical of
- a. Authenticity
  - b. Application of use
  - c. Co-Use
  - d. All of the above
16. This provides educators with a practical way to measure whether authentic student learning occurs when digital technology tools are integrated into a lesson.
- a. The Triple E Framework
  - b. The TPACK framework
  - c. The TIM framework
  - d. All of the above
17. The TPACK framework describes:
- a. Technical Pedagogical Creative Knowledge
  - b. Thorough Pedagogical Content Knowledge
  - c. Technological Programmatic Content Knowledge
  - d. Technological Pedagogical Content Knowledge
15. One of the major issues impeding the establishment of successful technology programs is that
- a. educational policymakers had invested significant resources on initial funding for the laptop program without considering future costs.
  - b. Ongoing costs for staff support, training, repairs, and frequent upgrades equal if not exceed the start-up costs.
  - c. Curricular integration and staff development.
  - d. All of the above
16. All the following apply to using electronic whiteboards in the classroom, except?
- a. Activities which use interactive whiteboards are achievable using a regular computer and projector.
  - b. There exist a variety of different manufacturers which means there is no standard for interactive whiteboard software.
  - c. Students in lessons that used interactive whiteboards were more passive and less engaged in the lessons.
  - d. All of the above
17. Educational managers who know how to work with the \_\_\_\_\_ of an organization will be more successful than less-skilled managers in implementing new

information systems (technology).

- a. Politics
- b. Culture
- c. Norms
- d. All of the above

18. In technology planning, examining and understanding both the school and the environment as much as possible with the caveat they cannot understand entirely is an element of.

- a. Collaboration
- b. Assurance
- c. Endurance
- d. None of the above

19. Database management and transaction-processing systems such as student demographics, grading, budgeting, payroll, personnel, scheduling, and inventory control, are examples

- a. administrative systems
- b. instructional systems
- c. administrative and instructional systems.
- d. None of the above

20. This/these support training and learning activities that are designed for and used mainly by teachers, school library media specialists, and students.

- a. Administrative systems
- b. instructional systems
- c. administrative and instructional systems.
- d. None of the above

21. Learning the structure, synonym, and antonym of a word can be done using which of the following Web 2.0 tools?

- a. Wordle
- b. Visuwords
- c. WordHistory
- d. Tagxedo

22. Which of the following Web 2.0 tools can be used both as a communication and a collaboration tool?

- a. Voicethread
- b. Wikidot
- c. Symbaloo
- d. Mindomo

23. From the management information systems (MIS) perspective, what main factors do we consider when introducing technology?

- a. technical perspective
- b. behavioral perspective

- c. technical and behavioral perspective
  - d. None of the above
31. When a teacher uses the web 2.0 tool, blogger, to deliver a lesson, he/she is delivering
- a. One-way communication
  - b. Two-way communication
  - c. Multiple-way communication
  - d. All of the above
32. There is a problem in Miss Fakihat Actulo's class. Most of her students have raised their hands, wanting to contribute to the ensuing discussion. Others are thinking about what to contribute, but first want to listen to the opinions of other students. The point is everyone wants to share ideas on the issue under discussion, and again, to the opinion of others. Which of these tools would you recommend?
- a. FEEDLY
  - b. PODOMATIC
  - c. BOARDHOST
  - d. All of the above
33. Next month is Grandparents' Day at AAMUSTED Elementary School. All the teachers are preparing for the big event. Miss Fakihat Actulo, a first-grade teacher, organizes an activity where her students can meet their classmates' grandparents. Miss Actulo is concerned that some of the grandparents cannot attend since they live far away. She's worried that students may feel left out if their grandparents aren't able to come. How might Ms. Baker solve this problem?
- a. Use WIFI
  - b. Use BOARDHOST
  - c. Use BLOGGER
  - d. Use iRadio
  - e. Use FACETIME
  - f. All of the above
34. Next week is drug awareness week at AAMUSTED Elementary school. Miss Actulo, a fifth-grade teacher, is preparing a lesson for the event. She is thinking about what the fifth-grade students will do for the drug awareness week. She wants them to do creative stuff but, more importantly, wants them to be involved so that the event will be meaningful for them. Another teacher has decided that her third-grade class joins the event. The third graders need to be informed about the topic, so the teachers have agreed that the fifth graders create a presentation about the topic and let the third graders listen to it. In this way, the students would be creative and engaged. They will need to create a script and record the narration while sharing information with the school community. Which of these could be used?
- a. Use WIFI
  - b. Use BOARDHOST
  - c. Use BLOGGER
  - d. Use iRadio
  - e. Use Penzu
  - f. Use FACETIME
  - g. All of the above
35. Miss Actulo is struggling to find ways to provide opportunities for her students to share their

feelings. Since her class is only 45 minutes long, she doesn't have time to give to his students for reflection. She thinks that one solution might be to use journal prompts with students, knowing that they can take all the time to develop their answers when students use online journaling. Which of the following tools would you suggest?

- a. Use WIFI
- b. Use BOARDHOST
- c. Use BLOGGER
- d. Use iRadio
- e. Use Penzu
- f. Use FACETIME
- g. All of the above

36. In Elyse EidmanAadahl Scenario on Writing in the Digital Age, one significant advantage of using web 2.0 tools is that

- a. Writers can shorten the writing to the production cycle
- b. Writers do not have to go through a control cycle every time
- c. Writers can create a sophisticated mass of content
- d. Anybody can now do the writing process; children, adults, in school or out of school
- e. All of the above

37. One of the traditional notions of using technology in education is that

- a. educators are still cautious and concerned about its impact
- b. Primary and secondary schools were effectively excluded in the early years of the computer revolution
- c. Computers can be useful when teachers sufficiently understand the technology themselves
- d. All of the above

38. As far as planning for technology in education is concerned, it is important to

- a. Provide ongoing costs for staff support, training, repairs, and upgrades frequently equal if not exceed the start-up costs.
- b. Invest significant resources on initial funding for the laptop program
- c. Both a and B
- d. None of the above

39. This tool lets teachers send text messages to students and their parents without ever having to distribute phone numbers without distributing theirs.

- a. Remind101
- b. Google Hangouts
- c. Penzu
- d. All of the above

40. The communication continuum is a way to understand...

- a. The ways to communicate with a student
  - b. How to organize communication tools
  - c. The timeline of communication tools
  - d. The acceptance of communication tools by teachers
41. In Implementing the 7 Principles Framework by Chickering and Ehrmann (1996), what are the two learning components that can emphasize the good practice of time on task?
- a. Time and resources
  - b. Time and research
  - c. Time and final outcome
  - d. Time and energy
42. Web 1.0 was known as read-only web, and Web 2.0 is known as
- a. Write web
  - b. Visual Web
  - c. Read and Write web
  - d. Read and Visual web
43. Teachers and Students can use Blogs for all the following except?
- a. Teachers can use blogs to publish assignments, resources and keep students and even parents up to date on class events, due dates, and content being covered.
  - b. Teachers can also use blogs to help students master content and improve their writing skills.
  - c. Students can use blogs to publish their writing and educate others on a particular topic.
  - d. Students and teachers can use it as integrated audio and visual environment that allows them to give the appearance of being present at a location other than their actual physical location.
44. This provides teachers with a framework for assessing pieces of work in a standardized manner based on a set of criteria.
- a. Rubric
  - b. Summative assessment
  - c. Formative assessment
  - d. None of the above
45. Miss Fakihatu Actulo wants the idea of getting points or rewards to her students for posting online. Which of the following can be used?
- a. Digital signatures
  - b. Digital motivators
  - c. Digital badges
  - d. None of the above
46. This enables you to create content into boards depending on your interests, express your opinion on that content, and interact with others who share those interests.
- a. Prezi
  - b. Pinterest
  - c. Scoop.it
  - d. None of the above

47. Which of these can be used to generate a report on whether a student's work is original (no matching text) or unoriginal?
- a. Urkund
  - b. Socrative
  - c. Kahoot
  - d. None of the above
48. The following are Online quizzes tools, except?
- a. Socrative
  - b. Kahoot
  - c. Pearltrees
  - d. None of the above
49. Trying to reframe texts for alternate publications could be considered as a form of
- a. Self-plagiarism
  - b. Self-paraphrasing
  - c. Paraphrasing
  - d. None of the above
50. Which of these offers the opportunity to pin an image and allow the user to create and manage theme-based image collections such as events, interest hobbies, and even educational objectives?
- a. Prezi
  - b. Pinterest
  - c. Pearltrees
  - d. None of the above
51. Technology and resulting innovation that comes along to change the occupational landscape and environment radically is called.
- a. Disruptive technologies
  - b. Abruptive technologies
  - c. Both A and B
  - d. None of the above
53. The TRIPLE E framework is based on three components, namely:
- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
54. Miss Fakihat Actulo is a teacher at AAMUSTED UBS. Using a web-based tool, she has given a mobile quiz, and her students answer the questions via cell phone, but focusing on being the first one to respond rather than understanding the nature and purpose of the questions. The scenario is a typical example of
- a. \_\_\_\_\_

55. In a review of planning processes, Sheathelm (1991) identified four major elements of successful planning as the 4Cs. In the spaces below, write them down in their ***implementation order***. (2 marks)

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

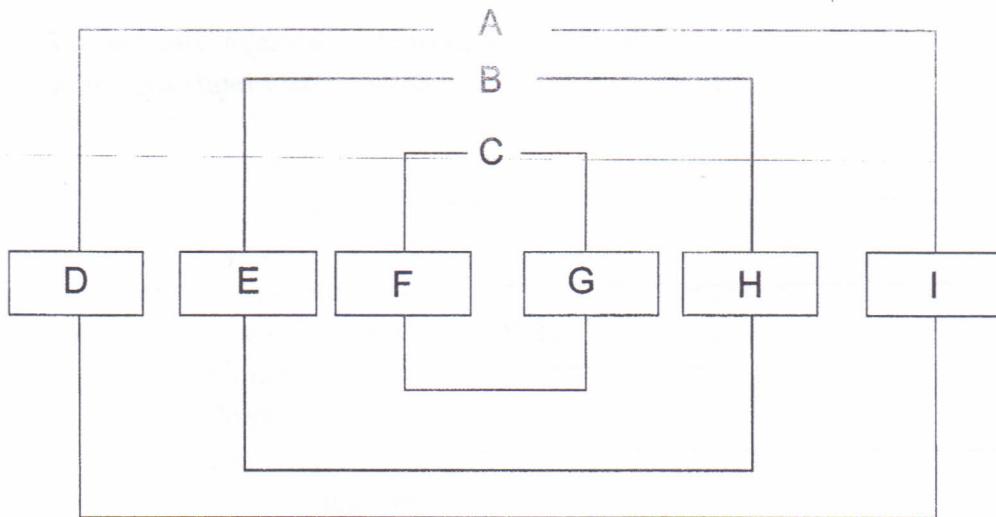
56. Technology applications in education can be divided into two major categories. What are they?

- a. \_\_\_\_\_
- b. \_\_\_\_\_

57. Teachers can ensure that students' prior knowledge, or lack thereof, does not impede how and what they learn with technology tools by connecting prior knowledge to new learning experiences through instructional strategies such as KWL charts. In the table below, explain the chart. (3 marks)

K	W	L

58. The diagram below shows the Model for Planning for Technology. In the spaces below, please write down the items lettered A to I. (6 marks)



59. In the spaces below, list the four (4) cognitive components that more precisely describe the reasoning and processes through which teachers operate when integrating technologies. (4 marks)

a. \_\_\_\_\_

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c. \_\_\_\_\_

d. \_\_\_\_\_

60. There are several ways to visualize organizational resistance. Research on organizational resistance to innovation suggests that four factors are paramount. Write them down in the spaces below. (**2 marks**)

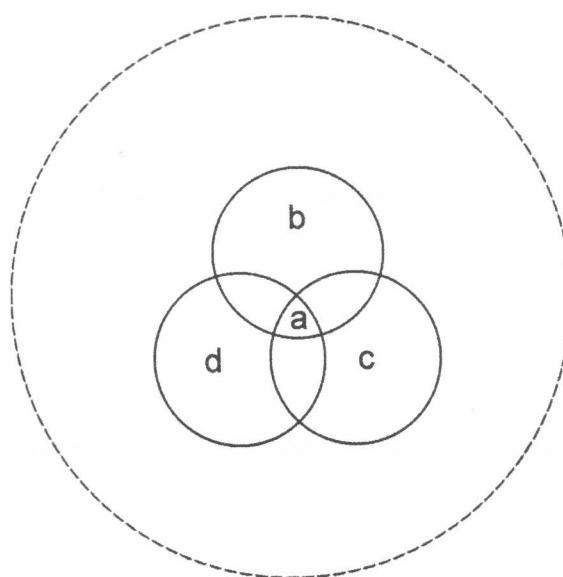
a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

d. \_\_\_\_\_

61. Regarding depicting the multiple domains and their intersections of the TPACK framework, list the elements lettered a to d. (**2 marks**)



a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

d. \_\_\_\_\_