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)
FIRST YEAR, END-OF-FIRST SEMESTER EXAMINATION, APRIL 2019

APRIL 4, 2019   FUNDAMENTALS OF IT EDUCATION   2:00 PM – 2:40 PM

This paper consists of TWO sections, A and B. Answer all the questions in section A and THREE questions from Section B. Section A will be collected after the first 40 minutes.

SECTION A

For items 1 to 17, each stem is followed by four options lettered A to D. Read each statement carefully and circle the letter of the correct or best option.

1. In using using a computer lab or a media centre for instructional purposes all students have access to the following except_____
   A. computers.
   B. internet.
   C. projector.
   D. software.

2. Which of the following list of elements of the hierarchy of data organization are not in ascending order?
   A. Bits, data elements, files.
   B. Bits, files, logical records.
   C. Characters, files, database.
   D. Fields, records, files.

3. The function of the arithmetic and logic unit is to_____
   A. control the flow of programs and data.
   B. coordinate hardware resources.
   C. direct the operation of processor components.
   D. perform computations and logic operations.

4. In asynchronous data transmission, start/stop bits are located_____
   A. at the beginning and end of each message.
   B. between each character in the message.
   C. only at the beginning of each message.
   D. only at the end of each message.

5. A classroom that is equipped with one multimedia computer is termed_____
   A. alternate classroom.
   B. one-computer classroom.
   C. project-based classroom.
   D. science classroom.

6. The history of computing is divided into five_____
   A. evolutions.
   B. generations.
   C. processors.
   D. revolutions.

7. Telephones transmit _____ data.
   A. analog
   B. core
   C. digital
   D. fiber optic

8. The type of transmission that is commonly used in CB radio transmission is_____ transmission.
   A. full-duplex
   B. half-duplex
   C. simplex
   D. synchronous

9. Which of the following is **not** true about a WAN?
   A. It is a collection of LANs.
   B. It has no geographical limitation.
   C. The ultimate of WAN is the internet.
   D. It is strictly defined in terms of geographical area.

10. Intruders are prevented from getting access to a college's network by the use of _____
    A. antivirus.
    B. authority level.
    C. firewall.
    D. user code.

11. To redisplay the current page, which one of the following button would you press?
    A. Refresh button
    B. Restore button
    C. Reboot button
    D. Reverse button

12. An advantage of desktop publishing over a word processing is the _____
    A. ability to import images in the desktop.
    B. ability to produce high quality graphics and page layouts.
    C. ability to use a variety of font types.
    D. better integration with database.

13. To ensure that access to a network is secure, the network should _____
   A. only requires a user name for access.
   B. provide anti-virus protection.
   C. require a user name and password for access.
   D. require the user to pay a fee to gain access.

14. Which of these factor(s) is/are to be considered when acquiring hardware for educational purpose?

   I. Software
   II. Instructional method
   III. Ability level of learners

   A. I and II
   B. II only
   C. II and III only
   D. I, II and III.

15. Which of the following viruses are likely to infect boot sectors?
   A. Macro viruses.
   B. Multi-partite viruses.
   C. Trojan horses.
   D. Worms.

16. Which of the following statements about Graphical User Interface (GUI) is correct?
   A. GUI uses command line to execute commands.
   B. GUI is slower compared to Command Line Interface.
   C. GUI enables users to easily script a sequence of commands to perform a task.
   D. GUI enables users to easily view, control and manipulate multiple things at once.

17. Which of these factor(s) is/are to be considered when acquiring hardware for educational purpose?

   I   Software
   II   Instructional method
   III Ability level of learners

   A. I and II
   B. II only
   C. II and III only
   D. I, II and III

Items 18 to 29 consist of statements. Read the statements carefully and indicate in the response column whether the statement is True or False.

Statement	Response
18. Heat sink absorbs and dissipates heat produced by the central processing unit.	
19. Authentic assessment can be formal or informal and aims to present students with tasks that mirror the objectives and challenges typical of their instructional activities.	
20. One characteristic of Web 1.0 site is that they are interactive.	
21. Parallel ports are faster than serial port.	
22. Resource availability is a barrier to technology integration.	
23. Special purpose computers perform a wide range of task.	
24. When evaluating the content of a software application, always relate the content to your school's and instructional outcomes.	
25. There are **no** specific input and output devices for the visually impaired	
26. Teachers should continue to evaluate the technology while it is being used and after the instruction.	
27. Thermometer is an example of a hybrid computer.	
28. Timing is irrelevant so far as synchronous transmission is concerned.	
29. To integrate software into a curriculum, it must first be evaluated.	

Items 30-40 consist of statements with blank spaces. Fill in the blanks with the appropriate responses.

30. The use of the internet to perform illegal acts is termed as ....

31. An internet enabled telephone is called ....

32. Any printed or online information that provides assistance in installing, using, maintaining, and updating a software is termed as ....

33. Interactivity is the amount of... a user has over a presentation.

34. Software designed to reinforce previously presented content is .... software.

35. Successful technology integration requires... during all phases of instruction.