10

Answer all the questions.

Each question is followed by four options lettered A to D. Find the correct option for each question and shade in pencil on your answer sheet the answer space which bears the same letter as the option you have chosen. Give only one answer to each question. An example is given below.

A friend approached you to assist in buying a device to enable him capture data into a computer system. The **best** device to suggest to the friend is

A. stylus.
B. speaker.
C. monitor.
D. projector.

The correct answer is stylus, which is lettered A and therefore answer space A would be shaded.

■■ ⊂B⊃ ⊂C⊃ ⊂D⊃ ⊂E⊃

Think carefully before you shade the answer spaces. Erase completely any answer you wish to change.

Do all rough work in this question paper.

1. Computers have become smaller, faster, and more reliable due to the use of microprocessor in the
A. second generation.
B. third generation.
C. fourth generation.
D. fifth generation.

2. The graphic tablet is a kind of device used to capture
A. RFID signals.
B. QR code scans.
C. magnetic card data.
D. handwritings, drawings and inputs.

3. To make teaching and learning of computing more interactive, the teacher intends to demonstrate an activity by showing diagrams, images and videos on a large screen in the classroom. The **most** appropriate device to achieve this objective by the teacher is a
A. printer.
B. plotter.
C. monitor.
D. projector.

4. The purpose of a storage device in a computer system is for
A. keeping and retrieving data.
B. displaying graphic elements.
C. executing computer programs.
D. connecting devices to the Internet.

5. A school prefect approached the computing club to guide him design a presentation using Microsoft PowerPoint. The prefect intends to practice the presentation and record the time spent for each slide to make his presentation run smooth. The **best** feature the computing club will suggest to the prefect is
A. presenter notes.
B. presenter feature.
C. rehearse feature.
D. rehearse timings.

6. After the computing class, a colleague approached you to further explain to him how to reference a worksheet cell in Microsoft Excel. In the explanation, you mentioned that, to reference a cell, one need to use the cell
A. value.
B. address.
C. content.
D. function.

7. Bello formatted Microsoft Excel worksheet cells with different colours based on specific conditions and it was very beautiful. Which of the given features can a student use to achieve the same results as Bello?
   A. Conditional sorting
   B. Conditional filtering
   C. Conditional validation
   D. Conditional formatting

8. Which of the following terminologies is associated with computer network?
   A. Junk
   B. Trojan
   C. Firewall
   D. Defragmenter

9. Zalia is very good at posting her pictures and location of where ever she goes on her social media platforms for her friends to see. The **potential** risk associated with Zalia's activities online is
   A. identity theft.
   B. learning difficulties.
   C. strengthening friendships.
   D. building a professional network.

10. Surfing the Internet requires the use of search engines which was designed to help users find
    A. information on the Internet.
    B. information from e-mail messages.
    C. information from the computer hard disk drive.
    D. information from files and folders on the computer.

11. In the concept of programming, a comment in a program code is used to
    A. explain portions of the code.
    B. make the program run faster.
    C. change the output of the program.
    D. temporarily remove a line of code.

12. Robotic systems have components that relates to the functioning of the human organs. The component of the robot that acts like the human brain is the
    A. motors.
    B. sensors.
    C. batteries.
    D. controllers.

13. The most powerful technological innovation made during the development of the fifth-generation computers was the use of
    A. vacuum tubes.
    B. integrated circuits.
    C. VLSI microprocessors.
    D. ULSI microprocessors.

14. A customer gave a new laptop to a technician to set accounts on windows that is required to make changes to all system settings. The **best** account type that you will advise the technician to consider is
    A. Guest.
    B. Remote.
    C. Standard.
    D. Administrator.

15. JHS students were given a project by their computing teacher to create a virtual museum for the storage of electronic artifacts. The **possible** tool for this assignment is
    A. cloud computing.
    B. social networking.
    C. augmented reality.
    D. artificial intelligence.

16. The Secretary to the Parliament of Ghana sits on an ergonomic chair to work in the office because it
    A. ensures proper sitting arrangements.
    B. makes the workplace looks attractive.
    C. aligns the chairs properly with the workstation.
    D. promotes proper body alignment and support.

17. Text formatting options in Word processing applications include
    A. subscript.
    B. underline.
    C. superscript.
    D. strikethrough.

18. A user intends to create and customize diagrams in Microsoft PowerPoint application for a presentation. The **best** feature to help the user achieve the task is
    A. Charts.
    B. Shapes.
    C. WordArt.
    D. SmartArt.

Turn over

19. In a Desktop Publishing project work, a student's work contained more text than it can display. This situation is **best** described as
   A. layout.
   B. template.
   C. overflow.
   D. alignment.

20. The purpose of the IF function in Microsoft Excel application is to
   A. calculate the average of a range of cells.
   B. manipulate text from multiple cells into one cell.
   C. perform a logical test and return a value for a condition.
   D. return the value from a specified row and column intersection.

21. What value will the Microsoft Excel function = COUNT(A1:A10) return?
   A. 1
   B. 9
   C. 10
   D. 11

22. At the Internet cafe, Kofi connected his laptop to the Internet without using cable and Akua also connected her laptop to the Internet using cable. An example of Akua's connection type is
   A. Infrared.
   B. Bluetooth.
   C. Wi-Fi adaptor.
   D. Ethernet adaptor.

23. The computing teacher during computing class advised the students that, studying computer networking provides entrepreneurial opportunities. Which of the following statements in your opinion **justifies** the advise given to the students?
   A. Offering consulting services
   B. Developing video games online
   C. Creating social media platforms
   D. Designing smartphone Apps for schools

24. After replacing his old smartphone with a new one, Muba cannot access most of his saved contacts. His friend advised that, he should have saved the contacts in an e-mail environment. The feature that would have allowed Muba to save and organize the contacts in the e-mail environment is referred to as
   A. draft.
   B. folders.
   C. attach files.
   D. address book.

25. In a computing class, a video of a user who gained unauthorized access into an organization's computer system was shown and discussed. The user's act in the video is termed
   A. hacking.
   B. encryption.
   C. cyberbully.
   D. authentication.

26. An entry on a blog that contains texts, images or multimedia content is called
   A. post.
   B. name.
   C. status.
   D. account.

27. A programmer uses a good algorithm to write a software. The algorithm being used is characterized by the following **except**
   A. efficiency.
   B. simplicity.
   C. correctness.
   D. complexity.

28. Robots are used in many areas of the society. An example of the application of robots in the society includes
   A. virtual reality.
   B. machine learning.
   C. artificial intelligence.
   D. autonomous vehicles.

29. A quiz master asked participants to **complete** the statement: *while download folder is the default location for downloaded files, my recent folder is the default location for documents*

A. just printed.
B. to be saved.
C. just worked on.
D. to be worked on.

30. The term multimedia is widely used in several areas in the computing environment. What will you tell the computing teacher about the function of a multimedia feature in Word processing application?

A. It converts texts into audio formats.
B. It translates texts into different languages.
C. It removes images from word document.
D. It adds interactive elements like buttons and links.

31. In a group presentation, a group was to demonstrate how to insert an online video into a slide they have created. The first step to be considered by the group is to click on the

A. Insert tab.
B. Design tab.
C. Online video.
D. Download video.

32. A designer consistently reminds his staff to use template in Desktop publishing because it helps to

A. create documents in unique ways.
B. provide a starting point for document design.
C. decorate the document for distribution to others.
D. provide an opportunity for users to print their work.

33. A man shared his property to his children and wife in a particular ratio. The **most** appropriate chart type that can be used to represent the sharing of the property is

A. pie chart.
B. bar chart.
C. line chart.
D. scatter chart.

34. The **correct** syntax of the IF() function in Microsoft Excel application is

A. =IF(logical_test : [value_if_true], [value_if_false])
B. =IF(logical_test, [value_if_true], [value_if_false])
C. =IF(logical_test, {[value_if_true]}, {[value_if_false]})
D. =IF(logical_test, TRUE ([value_if_true]), FALSE ([value_if_false]))

35. Most JHS students can send pictures to their friends through various social media platforms but find it difficult to send it through an electronic mail. The **most** appropriate feature in an electronic mail to accomplish this task is

A. compose.
B. categorize.
C. attach files.
D. draft messages.

36. A weekend assignment requires students to create a blog for the school. The **best** activity needed for the assignment is to

A. pick the blog name and niche.
B. display advertisement of the blog.
C. provide consulting services to the bloggers.
D. determine the product to sell on the blog.

37. Miss Fatima, the computing teacher taught the class basic programming terms. Explain to your friend what Miss Fatima said pseudocode is

A. compiled programming codes.
B. structured programming symbols.
C. flowchart decisions using symbols.
D. step-by-step outline of a program using informal language.

38. A student is very good at converting any integer to binary but finds it difficult to convert from hexadecimal to binary. Help the student to convert the hexadecimal number $A2_{16}$ to binary.

A. 10000110_2
B. 10100010_2
C. 10010001_2
D. 10001010_2

39. A programmer has indented the codes in the program being written. The purpose of the indentation is to

A. make the code difficult to read by users.

B. hide the code from others when writing it.

C. create bugs in the program to disturb the codes.

D. show the start and end of a conditional statement.

40. The role of neural networks in Artificial Intelligence in modern technology is to

A. control robots within their environment for work and safety.

B. enhance Internet speed for fast movements of the robots.

C. create computer virus for robots to find solutions to them.

D. simulate human brain function for learning and problem-solving.

END OF PAPER