

Exam

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) In *tech speak*, processor is a synonym for _____. 1) _____

Answer: computer

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

2) The ARM is a _____ 2) _____

- A) type of processor
- B) type of software
- C) brand of microwave oven
- D) variety of boot ROM

Answer: A

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

3) _____ is the collective term for computer programs. 3) _____

Answer: Software

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

4) In the 1950s and 1960s before integrated circuits were used, memory was made _____ 4) _____

- A) by using a single transistor
- B) by a process of printing bits, similar to film photography
- C) by creating a standing wave on a tightened electrical wire
- D) by stringing tiny magnetic "donuts" onto a grid of wire threads

Answer: D

Diff: 0 Type: MC

5) In the story of the tortoise and the hare, the abstraction is _____ 5) _____

- A) that speed is deceiving
- B) that slow and steady wins the race
- C) the hare
- D) the tortoise

Answer: B

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

6) The camera in a smart phone can be classified as an input device. 6) _____

Answer: True False

Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

7) The replacement of hardware with software, integrated circuits, and layered software are all techniques to _____. 7) _____

Answer: reduce the impact of complexity

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 8) The first production application of digital information was 8) _____
A) the use of vacuum tubes for calculations needed by the US Army
B) punched card tabulation for the 1890 US Census
C) the invention of the transistor at Bell Labs
D) the ENIAC computer

Answer: B
Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 9) Describing a technical problem with the right words helps to facilitate a speedy answer from tech support. 9) _____

Answer: True False
Diff: 0 Type: TF

- 10) There is normally only one unique way to solve every computational task. 10) _____

Answer: True False
Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 11) The central idea or concept, removed from a situation, is called 11) _____
A) abstraction B) information C) generalization D) interaction

Answer: A
Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 12) ARM (Advanced RISC Machine) is a standard processor that is often used as a component of consumer devices. 12) _____

Answer: True False
Diff: 0 Type: TF

- 13) Writing software is the job of programmers and software developers. 13) _____

Answer: True False
Diff: 0 Type: TF

- 14) Software is a collective term for the instructions computers perform to implement applications. 14) _____

Answer: True False
Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 15) The agent that runs an algorithm may not be a computer. Often it is a(n) _____ instead. 15) _____

Answer: person
Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 16) Booting a computer means to 16) _____
A) run a program from the hard disk B) restart the computer
C) start the computer D) None of these

Answer: C
Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 17) In computing, all data is represented by numbers, regardless of whether the data is stored in memory, on a hard disk, in the cloud, or anywhere else. 17) _____

Answer: True False
Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 18) A simpler way to say, "The ability to apply what we know about how a device or system works to simplify its use" is to 18) _____
A) generalize B) use a mnemonic
C) be operationally attuned D) use an abstraction

Answer: A
Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 19) An integrated circuit contains, among other things, transistors. 19) _____

Answer: True False
Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 20) A precise, systematic way to produce a specified result is a(n) 20) _____
A) algorithm B) computation C) agent D) abacus

Answer: A
Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 21) A(n) _____ is a series of layers of programs that support user applications. 21) _____

Answer: software stack
Diff: 0 Type: SA

- 22) _____ are algorithms that have been specialized to a specific set of conditions and assumptions and (usually) are written in a specific programming language. 22) _____

Answer: Programs
Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 23) Select all that apply. Which of the following are advantages of transistors over vacuum tubes? 23) _____
- A) Transistors are smaller than vacuum tubes.
 - B) Transistors use less power than vacuum tubes.
 - C) Transistors are more reliable than vacuum tubes.
 - D) Transistors can be used alone while vacuum tubes must be used in pairs.

Answer: A, B, C
Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 24) Only a computer can use digital information. 24) _____

Answer: True False
Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 25) When an integrated circuit is manufactured 25) _____
- A) the parts are created consecutively by type: first created are the operational units, then the connection, and then all the rest
 - B) the circuit is cut into a silicon chip by a microscopic drill bit
 - C) a complicated circuit is created as a unit, with all parts created together
 - D) many small parts are assembled by firing them onto a silicon chip

Answer: C
Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 26) If a device does not have a keyboard attached to it, it cannot be considered a computer. 26) _____

Answer: True False
Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 27) Understanding how the pedals on your bicycle transfer power to the wheels 27) _____
- A) makes you operationally attuned
 - B) is an algorithm
 - C) is a generalization
 - D) is an abstraction

Answer: A
Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 28) To apply your knowledge of how a device works as an aid to simplifying its user means to be _____. 28) _____

Answer: operationally attuned
Diff: 0 Type: SA

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

29) In software, the agent is anything that can follow instructions. 29) _____

Answer: True False

Diff: 0 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

30) Computers can be found _____. 30) _____

Answer: everywhere

Diff: 0 Type: SA

31) A(n) _____ is a block of silicon in which active and connective parts are fabricated together. 31) _____

Answer: integrated circuit

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

32) Rebooting a computer means to 32) _____

- A) start the computer
- C) restart the computer

- B) run a program from a hard disk
- D) None of these

Answer: C

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

33) The computer first digitized the U.S. census data in 1980. 33) _____

Answer: True False

Diff: 0 Type: TF

34) Transistors helped advance computing because they increased the complexity of the assembly process. 34) _____

Answer: True False

Diff: 0 Type: TF

35) The early computer, ENIAC, weighed thirty tons. 35) _____

Answer: True False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

36) Using ROY G BIV to remember, in order, the colors of the rainbow as red, orange, yellow, green, blue, indigo, and violet is an example of a(n) 36) _____

- A) mnemonic
- B) algorithm
- C) generalization
- D) abstraction

Answer: A

Diff: 0 Type: MC

- 37) The Basic Input/Output System (BIOS) is stored on a microchip called the
- A) boot ROM
 - B) ARM processor
 - C) flash memory package
 - D) kernel

37) _____

Answer: A

Diff: 0 Type: MC

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 38) _____ is the physical implementation of a computer, usually electronic, and includes the processor, memory, and, typically, its peripheral devices.

38) _____

Answer: Hardware

Diff: 0 Type: SA

Answer Key
Testname: CH1

- 1) computer
Diff: 0 Page Ref:
Topic:
- 2) A
Diff: 0 Page Ref:
Topic:
- 3) Software
Diff: 0 Page Ref:
Topic:
- 4) D
Diff: 0 Page Ref:
Topic:
- 5) B
Diff: 0 Page Ref:
Topic:
- 6) TRUE
Diff: 0 Page Ref:
Topic:
- 7) reduce the impact of complexity
Diff: 0 Page Ref:
Topic:
- 8) B
Diff: 0 Page Ref:
Topic:
- 9) TRUE
Diff: 0 Page Ref:
Topic:
- 10) FALSE
Diff: 0 Page Ref:
Topic:
- 11) A
Diff: 0 Page Ref:
Topic:
- 12) TRUE
Diff: 0 Page Ref:
Topic:
- 13) TRUE
Diff: 0 Page Ref:
Topic:
- 14) TRUE
Diff: 0 Page Ref:
Topic:
- 15) person
Diff: 0 Page Ref:
Topic:
- 16) C
Diff: 0 Page Ref:
Topic:

Answer Key

Testname: CH1

- 17) TRUE
Diff: 0 Page Ref:
Topic:
- 18) A
Diff: 0 Page Ref:
Topic:
- 19) TRUE
Diff: 0 Page Ref:
Topic:
- 20) A
Diff: 0 Page Ref:
Topic:
- 21) software stack
Diff: 0 Page Ref:
Topic:
- 22) Programs
Diff: 0 Page Ref:
Topic:
- 23) A, B, C
Diff: 0 Page Ref:
Topic:
- 24) FALSE
Diff: 0 Page Ref:
Topic:
- 25) C
Diff: 0 Page Ref:
Topic:
- 26) FALSE
Diff: 0 Page Ref:
Topic:
- 27) A
Diff: 0 Page Ref:
Topic:
- 28) operationally attuned
Diff: 0 Page Ref:
Topic:
- 29) TRUE
Diff: 0 Page Ref:
Topic:
- 30) everywhere
Diff: 0 Page Ref:
Topic:
- 31) integrated circuit
Diff: 0 Page Ref:
Topic:
- 32) C
Diff: 0 Page Ref:
Topic:

Answer Key

Testname: CH1

33) FALSE

Diff: 0 Page Ref:
Topic:

34) FALSE

Diff: 0 Page Ref:
Topic:

35) TRUE

Diff: 0 Page Ref:
Topic:

36) A

Diff: 0 Page Ref:
Topic:

37) A

Diff: 0 Page Ref:
Topic:

38) Hardware

Diff: 0 Page Ref:
Topic: