

**Câu 1.** All the members of a record must be \_\_\_\_\_.

- A. the same type
- B. related types
- C. integer type
- D. character type

**Câu 2.** C, C++, and Java can be classified as \_\_\_\_\_ languages.

- A. machine
- B. symbolic
- C. high-level
- D. natural

**Câu 3.** In the system development process, writing the program is part of the \_\_\_\_\_ phase.

- A. Analysis
- B. design
- C. implementation
- D. testing

**Câu 4.** Virtual memory, which implies \_\_\_\_\_ or both.

- A. Demand paging, demand segmentation
- B. Paging, demand paging
- C. Paging, demand paging
- D. Demand segmentation, partitioning

**Câu 5.** \_\_\_\_\_ is a common language in the business –environment.

- A. FORTRAN
- B. C++
- C. C
- D. COBOL

**Câu 6.** One phase in system development is \_\_\_\_\_.

- A. Analysis
- B. application
- C. designing
- D. collecting

**Câu 7.** The task of subdividing memory between O/S and processes is performed automatically by the O/S and is called \_\_\_\_\_.

- A. Protection
- B. Reallocation
- C. Memory management
- D. All of the above

**Câu 8.** The pop operation \_\_\_\_\_ of the stack.

- A. deletes an item from the top
- B. deletes an item from the bottom
- C. inserts an item at the top
- D. inserts an item at the bottom

**Câu 9.** If A is the first data element input into a queue, followed by B, C, and D, then \_\_\_\_\_ is the first element to be removed.

- A. A
- B. B
- C. C
- D. D

**Câu 10.** A \_\_\_\_\_ is a set of predefined words that are combined into a program according to predefined rules (syntax)

- A. Programming language
- B. Computer language
- C. Machine language
- D. All of the above

**Câu 11.** In an abstract data type, \_\_\_\_\_.

- A. the ADT implementation is known
- B. the ADT implementation is hidden
- C. the ADT public operations are hidden
- D. Nothing is hidden

**Câu 12.** How many stages are there in the software development of waterfall model?

- A. Three
- B. Four
- C. Five
- D. Six

**Câu 13.** \_\_\_\_\_ is an English-language-like representation of code.

- A. A UML diagram
- B. A program
- C. Pseudocode
- D. An algorithm

**Câu 14.** Which of the following data structures have FIFO structure?

- A. Stack
- B. Graph
- C. Tree
- D. Queue

**Câu 15.** \_\_\_\_\_ is an ordered collection of data in which each element contains the location of the next element.

- A. An array
- B. A record
- C. A linked list
- D. A file

**Câu 16.** In \_\_\_\_\_ sort, the item that goes into the sorted list is always the first item in the unsorted list.

- A. selection
- B. bubble
- C. insertion
- D. every

**Câu 17.** To prevent \_\_\_\_\_, an operating system can put resource restrictions on processes.

- A. starvation
- B. synchronization
- C. paging
- D. deadlock

**Câu 18.** Each element in a record is called \_\_\_\_\_.

- A. a variable
- B. an index

- C. a field
- D. a node

**Câu 19.** The \_\_\_\_\_ scheduler moves a process from one process state to another.

- A. job
- B. process
- C. virtual
- D. queue

**Câu 20.** \_\_\_\_\_ is a step-by-step method for solving a problem or doing a task.

- A. A construct
- B. A recursion
- C. An iteration
- D. An algorithm

**Câu 21.** The concept of memory management satisfies certain system requirements, including:

- A. Protection
- B. Reallocation
- C. Physical organization
- D. All of the above

**Câu 22.** In the system development process, structure charts are tools used in the \_\_\_\_\_ phase.

- A. analysis
- B. design
- C. implementation
- D. testing

**Câu 23.** An array that consists of just rows and columns is a \_\_\_\_\_ array.

- A. one-dimensional
- B. two-dimensional
- C. three-dimensional
- D. multidimensional

**Câu 24.** A data structure can be \_\_\_\_\_.

- A. only an array

- B. only a record
- C. only a linked list
- D. an array, a record, or a linked list

**Câu 25.** Java is a(n) \_\_\_\_\_ language.

- A. procedural
- B. functional
- C. declarative
- D. object-oriented

**Câu 26.** A stack is a \_\_\_\_\_ structure.

- A. FIFO
- B. LIFO
- C. DIFO
- D. SIFO

**Câu 27.** There are \_\_\_\_\_ basic constructs in computer –science.

- A. one
- B. two
- C. three
- D. four

**Câu 28.** If A is the first data element input into a stack, followed by B, C, and D, then \_\_\_\_\_ is the first element to be removed.

- A. A
- B. B
- C. C
- D. D

**Câu 29.** The concept of virtual memory is based on one or both of 2 basic techniques:

- A. Overlaying and relocation
- B. Demand paging and segmentation
- C. Segmentation and partitioning
- D. None of the above

**Câu 30.** Defining the users, requirements, and methods is part of the \_\_\_\_\_ phase.

- A. analysis

- B. design
- C. implementation
- D. testing