- 1. What should the return type of method where there is no return value?
  - 1. Null
  - 2. Empty collection
  - 3. Singleton collection
  - 4. Empty String



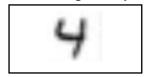
- 2. What data structure should be used when number of elements is fixed?
  - 1. Array
  - 2. Array list
  - 3. Vector
  - 4. Set



- 3. What causes the program to exit abruptly and hence its usage should be minimalistic?
  - 1. Try
  - 2. Finally
  - 3. Exit
  - 4. Catch



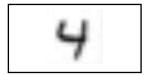
- 4. Which one of the following causes memory leak?
  - 1. Release database connection when querying is complete
  - 2. Use Finally block as much as possible
  - 3. Release instances stored in static tables
  - 4. Not using Finally block often



- 5. Which of the below is true about java class structure?
  - 1. The class name should start with lowercase
  - 2. The class should have thousands of lines of code
  - 3. The class should only contain those attribute and functionality which it should; hence keeping it short
  - 4. The class attributes and methods should be public



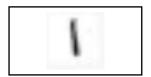
- 6. Which of the following condition is required for a deadlock to be possible?
  - 1. mutual exclusion
  - 2. a process may hold allocated resources while awaiting assignment of other resources
  - 3. no resource can be forcibly removed from a process holding it
  - 4. all of the mentioned



- 7. Which scheduling algorithm allocates the CPU first to the process that requests the CPU first?
  - 1. first-come, first-served scheduling
  - 2. shortest job scheduling
  - 3. priority scheduling
  - 4. none of the mentioned



- 8. What is the ready state of a process?
  - 1. when process is scheduled to run after some execution
  - 2. when process is unable to run until some task has been completed
  - 3. when process is using the CPU
  - 4. none of the mentioned



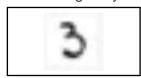
- 9. When will file system fragmentation occur?
  - 1. unused space or single file are not contiguous
  - 2. used space is not contiguous
  - 3. unused space is non-contiguous
  - 4. multiple files are non-contiguous



- 10. What are the common security threats?
  - 1. File Shredding
  - 2. File sharing and permission
  - 3. File corrupting
  - 4. File integrity



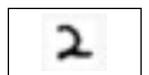
- 11. Which one of the following is a set of one or more attributes taken collectively to uniquely identify a record?
  - 1. Candidate key
  - 2. Sub key
  - 3. Super key
  - 4. Foreign key



- 12. '\_\_\_' matches any string of \_\_\_\_\_ three characters. '\_\_\_ %' matches any string of at \_\_\_\_\_ three characters.
  - 1. Atleast, Exactly
  - 2. Exactly, Atleast
  - 3. Atleast, All
  - 4. All, Exactly



- 13. The attribute name could be structured as an attribute consisting of first name, middle initial, and last name. This type of attribute is called
  - 1. Simple attribute
  - 2. Composite attribute
  - 3. Multivalued attribute
  - 4. Derived attribute



- 14. Entity is a \_\_\_\_\_
  - 1. Object of relation
  - 2. Present working model
  - 3. Thing in real world
  - 4. Model of relation



- 15. Which is a bottom-up approach to database design that design by examining the relationship between attributes:
  - 1. Functional dependency
  - 2. Database modeling
  - 3. Normalization
  - 4. Decomposition

