

# Database Questions and Answers – Failure with Nonvolatile Storage

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This set of Database Multiple Choice Questions & Answers (MCQs) focuses on “Failure with Nonvolatile Storage”.

1. The silicon chips used for data processing are called

- a) RAM chips
- b) ROM chips
- c) Micro processors
- d) PROM chips

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Answer: d

Explanation: PROM is Programmable Read Only Memory.



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2. Which of the following is used for manufacturing chips?

- a) Control bus
- b) Control unit
- c) Parity unit
- d) Semiconductor

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Answer: d

Explanation: A semiconductor is a material which has electrical conductivity between that of a conductor such as copper and that of an insulator such as glass.

3. What was the name of the first commercially available microprocessor chip?

- a) Intel 308
- b) Intel 33
- c) Intel 4004
- d) Motorola 639

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Answer: c

Explanation: The Intel 4004 is a 4-bit central processing unit (CPU) released by Intel Corporation in 1971

4. The magnetic storage chip used to provide non-volatile direct access storage of data and that have no moving parts are known as

- a) Magnetic core memory
- b) Magnetic tape memory
- c) Magnetic disk memory



d) Magnetic bubble memory

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Answer: d

Explanation: Bubble domain visualization by using CMOS-MagView.

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5. The ALU of a computer normally contains a number of high speed storage element called

- a) Semiconductor memory
- b) Registers
- c) Hard disks
- d) Magnetic disk

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Answer: b

Explanation: External control unit tells the ALU what operation to perform on that data, and then the ALU stores its result into an output register.

6. Which of the following is used only for data entry and storage, and never for processing?

- a) Mouse
- b) Dumb terminal
- c) Micro computer
- d) Dedicated data entry system

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Answer: b

Explanation: Dumb terminals are those that can interpret a limited number of control codes.

7. Non-volatile storage needs to have a \_\_\_\_\_ where the losses in future can be recovered.

- a) Dump
- b) Recover place
- c) Disk
- d) Redo plan

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Answer: a

Explanation: The basic scheme is to dump the entire contents of the database to stable storage periodically—say, once per day.

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8. A dump of the database contents is also referred to as an \_\_\_\_\_ dump.

- a) Archival
- b) Fuzzy
- c) SQL
- d) All of the mentioned

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Answer: a

Explanation: We can archive the dumps and use them later to examine old states of the database.



9. \_\_\_\_\_ dump, writes out SQL DDL statements and SQL insert statements to a file, which can then be reexecuted to re-create the database.

- a) Archival
- b) Fuzzy
- c) SQL
- d) All of the mentioned

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Answer: c

Explanation: Such dumps are useful when migrating data to a different instance of the database, or to a different version of the database software, since the physical locations and layout may be different in the other database instance or database software version.

10. \_\_\_\_\_ dump schemes have been developed that allow transactions to be active while the dump is in progress.

- a) Archival
- b) Fuzzy
- c) SQL
- d) All of the mentioned

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Answer: b

Explanation: The simple dump procedure described here is costly and so fuzzy dump is used.

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