

# LPI

## 050-100

### Open Source Essentials - 050

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## Question: 1

In software development, what is an 'algorithm'?

Response:

- A. A set of rules for solving a problem in a finite number of steps
- B. A special type of software library
- C. A programming language designed for AI development
- D. A tool used to compile programs

**Answer: A**

## Question: 2

The process of managing changes to the software project over time is known as \_\_\_\_\_ management.

Response:

- A. change
- B. risk
- C. scope
- D. configuration

**Answer: D**

## Question: 3

What is a key legal consideration for businesses involved in open-source software under the GNU General Public License (GPL)?

Response:

- A. They must ensure all proprietary software they distribute is also open-sourced under the GPL.
- B. They are required to provide source code to users only upon request.
- C. They can distribute modified versions of GPL software without releasing the changes.
- D. They must make the source code available to anyone who receives the software.

**Answer: D**

### Question: 4

What is the main legal tool used to manage the rights in open source software?

Response:

- A. Copyright law
- B. Patent law
- C. Trade secret law
- D. Contract law

**Answer: A**

### Question: 5

What is the main difference between Creative Commons licenses and traditional copyright?

Response:

- A. Creative Commons licenses typically require the payment of royalties.
- B. Creative Commons licenses are not recognized internationally.
- C. Creative Commons licenses allow for some uses without permission that would otherwise be prohibited by copyright law.
- D. Creative Commons licenses provide less protection against plagiarism.

**Answer: C**

### Question: 6

An executable program that is generated by a compiler is also known as \_\_\_\_\_.

Response:

- A. Byte code
- B. Machine code
- C. Source code
- D. Object code

**Answer: B**

### Question: 7

Documents and datasets released under the \_\_\_\_\_ license must credit the creator but can be used for any other purpose, including commercial.

Response:

- A. Creative Commons Attribution
- B. Open Data Commons Attribution
- C. GNU Lesser General Public License
- D. Creative Commons NonCommercial

**Answer: B**

### Question: 8

Which business model is associated with providing additional paid services around open-source software, such as support or custom development?

Response:

- A. Open-core model
- B. Dual licensing model
- C. Support and services model
- D. Freemium model

**Answer: C**

### Question: 9

Software that is used to convert source code into machine code is called a \_\_\_\_\_.

Response:

- A. debugger
- B. compiler
- C. virtual machine
- D. linker

**Answer: B**

### Question: 10

Which open content license is specifically designed for works of art and design?

Response:

- A. GNU General Public License

- B. BSD License
- C. Creative Commons Attribution-NonCommercial-NoDerivatives
- D. Creative Commons Attribution

**Answer: D**

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