Central Administration for General Education

Educational Computer Material Development Department

Under the patronage of His Excellency the Minister of Education,

Mr. Mohamed Abdel Latif

Weekly Assessments for Programming and Artificial Intelligence for General Education (First Secondary Grade)

First Semester of the 2026/2027 Academic Year

Second Week

Prepared by:

Tamer Abdel Mohsen Mansour

Director of the Educational Computer Development Department

Review

Dr. Abeer Hamed Ibrahim

Educational Computer Development Consultant

Supervisor

Dr. Hala Abdel Salam Khafaji

Head of the Central Administration for General Education

and Supervisor of the Subject Consultants' Offices

Translated by : Enas Nour El.Deen

nezakr.natega4dk.net

Weekly assessment

First test

First:

1. **Explain why the registration principle is not required for copyright protection to take effect, unlike certain industrial property rights.**
2. **Compare Copyrights and Related (Neighboring) Rights, providing illustrative examples for each (such as singers and actors).**
3. **Explain how the core elements of information security (Confidentiality, Integrity, Availability) work together to protect data.**
4. **Clarify the functional nature and propagation mechanism of "Worm" malware across the internet.**
5. **Discuss the legal steps required to legally protect a newly developed computer program and outline the resulting rights.**

Second:

Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:

1. **Intellectual property rights are divided into industrial property rights and copyrights. ( )**

Choose the correct answer:

2. **The legal protection period for patents rights is:**

   A) 7 years B) 10 years C) 20 years D) 50 years

nezakr.natega4dk.net

Second test

First:

1. **Explain the fundamental difference between Patents rights and Trademarks as key elements of industrial property.**
2. **Discuss the importance of the Creative Commons Attribution license (BY) for both creators and users.**
3. **Detail cybercrime forms that rely on using another person's username or password and violating unauthorized access laws.**
4. **Explain the risks posed by Ransomware and how to face them to protect data from corruption or extortion.**
5. **Detail the steps required before using or redistributing a file containing copyrighted music published on an unofficial website.**

Second:

Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:

1. **Copyright takes effect automatically upon the creation of the work and does not require formal registration. ( )**

Choose the correct answer:

2. **Which type of malware replicates itself and spreads autonomously across the internet?**

   A) Trojan Horse B) Worm C) Spyware D) Ransomware

nezakr.natega4dk.net

Third test

First:

1. Compare "Design Rights" and "Utility Model Rights" in terms of external appearance, structural form, and practical utility.

2. Explain why copyright protection extends for the author's lifetime plus 50 years post-mortem.

3. Detail cyber threat methods that gather personal information without user knowledge (such as Spyware).

4. Explain the concept of "the purpose of copyright" and how it ensures fair use while preventing intellectual property infringement.

5. Discuss how to distinguish between rights protecting external appearance and rights protecting technical innovation in industrial property.

Second:

Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:

1. **Core elements of information security include Confidentiality, Integrity, and Availability. ( )**

Choose the correct answer:

2. **- The primary purpose of copyright is to:**

   A) Ensure fair use and legal protection of rights.

   B) Prevent all forms of citation.

   C) Allow infringement of intellectual property.

   D) Restrict work usage strictly to commercial purposes.

nezakr.natega4dk.net

Classroom Assessment:

First:

1. **You have developed a new software program. Explain how it can be legally protected and what rights result from this protection.**
2. **If you find a file containing copyrighted music published for free on an unofficial website, what steps must be followed before re-publishing or using it?**
3. **Explain how Ransomware and Worms compromise information security elements (Confidentiality, Integrity, Availability) in organizations.**

Second:

Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:

1. **Industrial property rights include patents rights and trademarks. ( )**

Choose the correct answer:

2. **Which Creative Commons license permits using the work provided that the original author is credited?**

   A) (NC) Non-Commercial B) (ND) No Derivatives C) (BY) Attribution D) (SA) Same term for adaptations

nezakr.natega4dk.net

Homework Assignment:

First:

1. **Discuss in detail how automatic copyright attachment upon work creation protects software and literary works without registration.**
2. **Detail violation types resulting from unauthorized access using another person's credentials and their effects on stored data security.**
3. **Compare the objectives of Spyware and Ransomware regarding the nature of threat posed to users and data.**

Second:

Put (√) mark in front of the correct statement and (×) mark in front of the wrong statement:

4. **Ransomware is used to protect data and prevent unexpected file loss. ( )**

Choose the correct answer:

5. **Which of the following threats collects personal information without the user's knowledge?**

A) Ransomware B) Spyware C) Viruses D) Trojan Horse

nezakr.natega4dk.net