DLMGWDIMP01\_E\_Unit01\_Question01

What is a core indicator for child health and well-being?

* decreasing child mortality (1 Pts)
* reduced poverty (0 Pts)
* better healthcare facilities for children (0 Pts)
* better education (0 Pts)

DLMGWDIMP01\_E\_Unit01\_Question02

What began the golden age of antibiotic discovery?

* the discovery of penicillin by Alexander Fleming in 1928 (1 Pts)
* the discovery of the tubercle bacillus by Robert Koch in 1882 (0 Pts)
* the discovery of of X-rays for diagnostic purposes by Wilhelm Roentgen in 1895 (0 Pts)
* the invention of the microscope by Antonie van Leeuwenhoek in 1675 (0 Pts)

DLMGWDIMP01\_E\_Unit01\_Question03

In which regions do the widest gaps in healthcare services exist, according to the WHO report from 2017?

* Sub-Saharan Africa and South Asia (1 Pts)
* Eastern Europe and Central Asia (0 Pts)
* South America and North Africa (0 Pts)
* Northern Asia and Oceania (0 Pts)

DLMGWDIMP01\_E\_Unit01\_Question04

What is the definition of digitization according to the Oxford English Dictionary?

* the electronic conversion of analogue data into digital form (1 Pts)
* converting binary numbers into text characters (0 Pts)
* the storage of digital data in a physical form (0 Pts)
* the process of adding extra digits to a number (0 Pts)

DLMGWDIMP01\_E\_Unit01\_Question05

What is the purpose of CDSS in digital health?

* to support physicians in their decision-making processes (1 Pts)
* to empower patients (0 Pts)
* to increase the equality of healthcare (0 Pts)
* to analyze medical decisions (0 Pts)

DLMGWDIMP01\_E\_Unit02\_Question01

Who holds power for interpreting patient health data transmitted to providers during self-monitoring?

* healthcare providers (1 Pts)
* technology designers (0 Pts)
* patients (0 Pts)
* health management consultants (0 Pts)

DLMGWDIMP01\_E\_Unit02\_Question02

What does the “e” in e-physician stand for?

* enabled (1 Pts)
* encouraged (0 Pts)
* educated (0 Pts)
* elite (0 Pts)

DLMGWDIMP01\_E\_Unit02\_Question03

What is essential for a successful virtual medical encounter?

* creating an environment of trust (1 Pts)
* establishing a more personal connection (0 Pts)
* ensuring a high level of technological understanding (0 Pts)
* demonstrating special diagnostic know-how (0 Pts)

DLMGWDIMP01\_E\_Unit02\_Question04

According to the national US study on EHR systems, what was the general level of physician satisfaction?

* low (1 Pts)
* very High (0 Pts)
* moderate (0 Pts)
* high (0 Pts)

DLMGWDIMP01\_E\_Unit02\_Question05

What was the purpose of the Oviedo Convention signed in 1997?

* to protect human rights in the biomedical field (1 Pts)
* to develop foundations of biomedical ethics (0 Pts)
* to establish a legal framework of reliable biomedical research (0 Pts)
* to create an international research and transfer agreement (0 Pts)

DLMGWDIMP01\_E\_Unit03\_Question01

Which type of analytics is used to determine an optimal course of action?

* prescriptive analytics (1 Pts)
* predictive analytics (0 Pts)
* anticipatory analytics (0 Pts)
* diagnostic analytics (0 Pts)

DLMGWDIMP01\_E\_Unit03\_Question02

What type of task is a typical example of unsupervised learning?

* clustering a data set into subsets of similar objects (1 Pts)
* constructing compressed versions of input data (0 Pts)
* labeling data to train models (0 Pts)
* detecting errors in labeled data (0 Pts)

DLMGWDIMP01\_E\_Unit03\_Question03

Which of the following is a major disadvantage of the proof-of-work consensus mechanism used in public blockchains?

* The consensus mechanism is computationally very expensive. (1 Pts)
* The consensus mechanism is easily hackable. (0 Pts)
* The consensus mechanism finalizes transactions within seconds. (0 Pts)
* The consensus mechanism eliminates the need for a central third party. (0 Pts)

DLMGWDIMP01\_E\_Unit03\_Question04

Which of the following is true about the history of blockchain technology?

* The proof-of-work consensus algorithm was proposed by Adam Back in 1997. (1 Pts)
* The first white paper one Cash was published by Stuart Haber and Scott Stornetta in 1991. (0 Pts)
* The concept of a tamper-proof digital document was introduced by David Chaum in 1983. (0 Pts)
* Blockchain technology was first developed for the purpose of digital currencies in the 1970s. (0 Pts)

DLMGWDIMP01\_E\_Unit03\_Question05

What is the significance of Shor's algorithm in the field of quantum computing?

* It is a quantum algorithm that can be used to break public key cryptography. (1 Pts)
* It is a well-known algorithm that can be used to improve the speed of classical computing. (0 Pts)
* It is a quantum algorithm that can be used to improve decoherence. (0 Pts)
* It is a well-known algorithm that can be used to optimize machine learning models. (0 Pts)

DLMGWDIMP01\_E\_Unit04\_Question01

According to Mario Bunge, what is a technologist’s foremost responsibility when designing technology?

* being beneficial to society in the long term (1 Pts)
* being economical in resource usage (0 Pts)
* avoiding harm in the short run (0 Pts)
* providing efficient results (0 Pts)

DLMGWDIMP01\_E\_Unit04\_Question02

What ethical approach evaluates the moral value of actions according to predetermined principles?

* deontological theories (1 Pts)
* utilitarianism (0 Pts)
* teleological theories (0 Pts)
* virtue ethics (0 Pts)

DLMGWDIMP01\_E\_Unit04\_Question03

Which of the following is a criticism of utilitarianism?

* Utilitarianism cannot predict all consequences of an action. (1 Pts)
* Utilitarianism is too complex to be practically applied. (0 Pts)
* Utilitarianism is too focused on individual rights at the expense of overall benefit. (0 Pts)
* Utilitarianism unfairly prioritizes the rights of minorities. (0 Pts)

DLMGWDIMP01\_E\_Unit04\_Question04

What is the controversy surrounding the trend of anthropomorphizing robots in design?

* Robots and assistive technologies mimic mostly female companions. (1 Pts)
* Robots that look and behave like humans are expensive to produce. (0 Pts)
* Tremendous manual effort is required for the development of human-like robots. (0 Pts)
* Their human-like design violates robots’ rights. (0 Pts)

DLMGWDIMP01\_E\_Unit04\_Question05

What ethical principle is derived from the criterion of "self-determination" in the evaluation of digital public health interventions proposed by Georg Marckmann?

* respect for autonomy (1 Pts)
* nonmaleficence (0 Pts)
* distributive justice (0 Pts)
* beneficence (0 Pts)

DLMGWDIMP01\_E\_Unit05\_Question01

What is a reproducibility crisis in the context of ML research?

* A reproducibility crisis refers to a failure to reproduce findings from ML studies. (1 Pts)
* A reproducibility crisis refers to the limited availability of open-source ML libraries and tools. (0 Pts)
* A reproducibility crisis refers to the ethical issues associated with using ML for decision-making processes. (0 Pts)
* A reproducibility crisis refers to the difficulty of getting researchers to share their ML code and data with other researchers for validation purposes. (0 Pts)

DLMGWDIMP01\_E\_Unit05\_Question02

What is a ransomware attack?

* a financially motivated attack by cybercriminals (1 Pts)
* a type of virus that destroys data on a computer system (0 Pts)
* a type of phishing attack that steals login credentials (0 Pts)
* a type of cyber-attack that targets public organizations (0 Pts)

DLMGWDIMP01\_E\_Unit05\_Question03

What are some potential uses of facial recognition algorithms in healthcare?

* patient registration and facility security (1 Pts)
* staff performance evaluations (0 Pts)
* patient well-being enhancement (0 Pts)
* social media management (0 Pts)

DLMGWDIMP01\_E\_Unit05\_Question04

Which of the following strategies is the most effective to counteract digital ethics lobbying?

* legislation and effective law enforcement (1 Pts)
* investments in technological innovation (0 Pts)
* ethical self-regulation standards (0 Pts)
* expansion of soft laws (0 Pts)

DLMGWDIMP01\_E\_Unit05\_Question05

What did a groundbreaking EU ruling in 2023 require Meta to do?

* reform its approach to personalized advertising (1 Pts)
* provide transparency regarding the analysis procedures applied to personal data (0 Pts)
* establish an internal control system to monitor surveillance capitalism practices (0 Pts)
* establish a Data Protection Advisory Board (0 Pts)