DLMAIAI01\_Unit01\_Question01

Who developed the systematic study of the patterns of logical reasoning?

* Aristotle (1 Pts)
* Ludwig Wittgenstein (0 Pts)
* Thomas Hobbes (0 Pts)
* David Hume (0 Pts)

DLMAIAI01\_Unit01\_Question02

What does the term “AI Winter” mean?

* a period of declining research and funding for artificial intelligence (1 Pts)
* a period of increased funding for artificial intelligence (0 Pts)
* the period of time before artificial intelligence became a concept or industry (0 Pts)
* a period when artificial intelligence comes to dominate humanity (0 Pts)

DLMAIAI01\_Unit01\_Question03

The Gartner Hype Curve for Emerging Technologies tries to measure

* the maturity of technological trends with respect to a schema of five successive phases. (1 Pts)
* hypothetical expectations. (0 Pts)
* the degree to which technology can be trusted. (0 Pts)
* falsehoods in technological forecasting. (0 Pts)

DLMAIAI01\_Unit01\_Question04

Name one example of industrial, autonomous artificial intelligence.

* a self-driving vehicle (1 Pts)
* a wearable health monitor (0 Pts)
* medical prescription assistance (0 Pts)
* a robotic toy (0 Pts)

DLMAIAI01\_Unit01\_Question05

The mathematician and computer scientist Alan Turing is best known for

* proposing a test to determine whether a machine should be considered intelligent. (1 Pts)
* providing proof that the technological singularity has occurred. (0 Pts)
* the invention of cognitive science with McCarthy. (0 Pts)
* the notion that the rule of law applies to persons and the state. (0 Pts)

DLMAIAI01\_Unit02\_Question01

The disadvantages of expert systems were mainly related to

* the complexity of the knowledge base leading to poor performance and challenges in validation. (1 Pts)
* a fragmented user base. (0 Pts)
* proprietary protocols. (0 Pts)
* a lack of good user support. (0 Pts)

DLMAIAI01\_Unit02\_Question02

The main lasting contribution of expert systems to artificial intelligence and/or computer science were

* explicit formal representation of knowledge, declarative programming style, and rapid prototyping. (1 Pts)
* the popularization of imperative programming and probabilistic reasoning. (0 Pts)
* list processing and procedural programming. (0 Pts)
* object-oriented programming and the implementation of systems without prototyping. (0 Pts)

DLMAIAI01\_Unit02\_Question03

In Prolog, the sequence of concrete steps to arrive at a desired program outcome is

* generated by the Prolog system. (1 Pts)
* specified by the programmer. (0 Pts)
* specified by the program user. (0 Pts)
* not determined at all. (0 Pts)

DLMAIAI01\_Unit02\_Question04

Supervised learning, unsupervised learning, and reinforcement learning

* are subfields of machine learning. (1 Pts)
* define the full range of the field of artificial intelligence. (0 Pts)
* are concepts still being tested in laboratories. They are not yet being applied. (0 Pts)
* have no relation to machine learning or artificial intelligence. (0 Pts)

DLMAIAI01\_Unit02\_Question05

The concept of a learning agent that perceives and interacts with its environment is the basis for

* reinforcement learning. (1 Pts)
* unsupervised learning. (0 Pts)
* supervised learning. (0 Pts)
* regression. (0 Pts)

DLMAIAI01\_Unit03\_Question01

In brain anatomy, the notion of lobes refers to

* large-scale compartmentalizations of the brain. (1 Pts)
* the hemisphere split of the brain. (0 Pts)
* anatomic details of dendrites. (0 Pts)
* parts of the peripheral nervous system. (0 Pts)

DLMAIAI01\_Unit03\_Question02

What are neurons in the human brain?

* They are nerve cells, connected to other neurons via dendrites and axons. (1 Pts)
* They are floating individual nerve cells without connections. (0 Pts)
* There are relatively few, with only a thousand per person. (0 Pts)
* They are stabilizing cells that maintain the overall brain structure. (0 Pts)

DLMAIAI01\_Unit03\_Question03

What is the purpose of the activation function of the neuron?

* It sends a signal down the axon if a threshold on the inputs is met. (1 Pts)
* It always passes on a signal. (0 Pts)
* It always blocks a signal. (0 Pts)
* It never modifies a signal strength. (0 Pts)

DLMAIAI01\_Unit03\_Question04

The representational theory of mind is

* an important conceptual foundation of cognitive science. (1 Pts)
* not related to cognitive science at all. (0 Pts)
* heavily critiqued by cognitive science. (0 Pts)
* only relevant in psychology. (0 Pts)

DLMAIAI01\_Unit03\_Question05

Current neural network models as used in artificial intelligence are

* a coarse analogue to biological neural networks. (1 Pts)
* an exact replication of biological neural networks. (0 Pts)
* not related to biological neural networks at all. (0 Pts)
* a mostly accurate analogue of biological neural networks. (0 Pts)

DLMAIAI01\_Unit04\_Question01

Characterize the relationship between computer science and artificial intelligence.

* Progress in high performance computing and data storage are major drivers for the current wave of progress in artificial intelligence. (1 Pts)
* The two fields are unrelated and are separate fields of study. (0 Pts)
* Both fields of study date back several hundred years. (0 Pts)
* While computer science benefits from artificial intelligence, artificial intelligence does not benefit from computer science. (0 Pts)

DLMAIAI01\_Unit04\_Question02

Cloud computing implies

* an on-demand computer and data storage for customers. (1 Pts)
* that the unknowns in computing become known or less cloudy. (0 Pts)
* that the unknowns of data become known or less cloudy. (0 Pts)
* that individual servers are not needed any longer. (0 Pts)

DLMAIAI01\_Unit04\_Question03

Artificial General Intelligence

* will require a considerably more variegated set of abilities than what weak artificial intelligence approaches can currently provide. (1 Pts)
* is a natural extension of weak artificial intelligence. (0 Pts)
* is provably impossible. (0 Pts)
* is guaranteed to come about in the near future. (0 Pts)

DLMAIAI01\_Unit04\_Question04

Speech-to-Text

* is one of many sub-fields of natural language processing. (1 Pts)
* is what natural language processing is all about. (0 Pts)
* has no relation to natural language processing. (0 Pts)
* has no practical application. (0 Pts)

DLMAIAI01\_Unit04\_Question05

Computer vision refers to

* the semantic understanding of visual scenes. (1 Pts)
* image acquisition by computers. (0 Pts)
* computer graphics. (0 Pts)
* filter operations such as smoothing or de-noising. (0 Pts)

DLMAIAI01\_Unit05\_Question01

The disruptive aspect of autonomous vehicles is not related to

* increased vehicle weights and greater fuel consumption. (1 Pts)
* reduced personal automobile ownership. (0 Pts)
* disruptions in the car rental business. (0 Pts)
* a reduction in the road accident rate, which will lead to insurance rate decreases. (0 Pts)

DLMAIAI01\_Unit05\_Question02

Possible artificial intelligence applications in medicine are

* widespread throughout many different aspects, such as personalized and precision medicine, medical diagnosis, and many others. (1 Pts)
* only in personalized medicine. (0 Pts)
* only in precision medicine. (0 Pts)
* only in genetic analysis. (0 Pts)

DLMAIAI01\_Unit05\_Question03

Robo-advising is a FinTech term that describes

* automatic portfolio allocation and management. (1 Pts)
* advice given to banks to choose between. (0 Pts)
* industry advice on the purchasing of robots. (0 Pts)
* advice on the best encryption schemes for blockchains. (0 Pts)

DLMAIAI01\_Unit05\_Question04

One major customer facing artificial intelligence service in retail is given by

* customer support chatbots. (1 Pts)
* supply chain optimization. (0 Pts)
* automatically controlled warehouses. (0 Pts)
* call center management. (0 Pts)

DLMAIAI01\_Unit05\_Question05

Government regulation of artificial intelligence is

* advisable with respect to the protection of privacy and rights to data ownership. (1 Pts)
* not at all advisable. (0 Pts)
* limited to the application of artificial intelligence in warfare. (0 Pts)
* only advisable with respect to potential job market impacts. (0 Pts)