Part One: Choose the correct answer among the given alternatives.

1. Which of the following technology can be considered among the currently available emerged technology?
   A. Block chain C. cloud computing
   B. A and B D. DevOps E. All
2. Which one of the following industrial revolutions fundamentally changed and transfer world around us in to modern society?
   A. Smart and autonomous systems fueled by data and machine learning.
   B. The age of science and mass production
   C. The steam engine D. A and B E. All
3. The second Industrial revolution known by _____.
   A. Machinery C. Mechanical and Electronic Technology
   B. Digital Technology D. All
4. _____ is considered as the new oil and strategic asset which determines the future of science, technology, the economy, and possibly everything.
   A. Technology B. Science C. Computer D. Data E. All
5. Which one of the following device is not considered as the basic kind of device in the world of digital electronic system?
   A. Memory B. Microprocessor C. Logic D. Network E. None
6. Which one of the following devices is considered among a full range of network-related equipment referred to as Service Enabling Devices.
   A. Modems B. Routers C. Switches D. All E. None

7. Which one of the following Disciplines contribute to Human-Computer Interaction (HCI)?

A. Computer Science C. Linguistics

B. Artificial Intelligent D. A and C

E. None

8. _____ is a multi-disciplinary field that uses Scientific method, processes, algorithm, and systems to extract knowledge and insight from structured, semi-structured and unstructured data.

A. Artificial intelligent B. Computer Science C. Data Science

D. None

9. _____ is a representation of facts, concepts,, or instructions in a formalized manner, which should be suitable for communication, interpretation, or processing, by human or electric machines.

A. Information B. Technology C. Data D. Data processing

10. _____ is simply an attribute of data that tells the compiler or interpreter how the programmer intends to use the data.

A. Data processing B. Data C. Data Science D. data type

11. A form of structured data that does not conform with the formal structure of data models associated with relational database or other forms of data tables is known as _____.

A. data type B. structured data C. Un structured data D.B and C

12. The process of gathering, filtering, and cleaning data before it is put in a data warehouse
or any other storage solution on which data analysis can be carried out.

A. Data analysis B. Data storage C. Data Acquisition D. Data processing

13. _____ is the network of physical objects or things embedded with electronics,
software, and network connectivity, which enables these objects to collect and exchange
data.

A. Artificial intelligence B. Big data C. Internet of Things D. None

14. The most important features of Internet of Things (IoT) includes _____.

A. Artificial intelligent B. Sensor C. Active engagement D. All

15. _____ describes the delivery of on-demand services, usually through the internet,
on a pay-per-use basis.

A. Artificial Intelligence B. Big data C. IoT D. Cloud computing

Part Two: Match column A with B

A	**B**
1. Challenge of IoT	A. Flexibility
2. Application of IoT	B. Healthcare

3. Augmented reality C. Interactive lesson

4. Digital privacy principle D. Transparency

5. Risk of emerging technology E. Drones

Part Three: Say True or False

1. Technology can serve to promote or restrict human rights.
2. Ethics is particularly important for the accountancy profession.
3. Emerging technologies can provide improved accuracy, better quality and cost efficiencies for business in every sector.
4. Emerging technologies enhanced surveillance like chemical and bio-detection sensors, cameras, drones, facial recognition, license plate readers.
5. One Nanometer corresponds to a billion of a meter.

Part Four: Discuss briefly the following points

1. Discuss the application areas of Nanotechnology.
2. Write down some biotechnology applications in Agriculture and medicine environment.

Answer Sheet