



BCS Essentials Certificate in Artificial Intelligence

Specimen Paper 1

Record your surname/last/family name and initials on the Answer Sheet.

Specimen Paper Only. 10 Multiple Choice Questions – 1 mark awarded to each question. Mark **only one answer** to each question. There are no trick questions.

A number of possible answers are given for each question, indicated by either **A. B. C.** or **D.** Your answers should be clearly indicated on the Answer Sheet.

Pass mark is 7/10

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Candidate Name.....

- 1 Who is often quoted as having defined Machine Learning?
- A Marvin Minsky.
 - B Tom Mitchell.
 - C Alan Turing.
 - D Sir James Lighthill.
- 2 What is an example of Human Intelligence?
- A Applying for a job.
 - B Watching a movie.
 - C Describing the taste of food.
 - D Identifying a horse in a foggy field.
- 3 What is **NOT** used to define Heuristic?
- A Child's play.
 - B Discovery.
 - C Trial and Error.
 - D Experimentation.
- 4 Which of the following is an Artificial Neural Network a form of?
- A Machine Learning that learns unsupervised from structured and un-structured data.
 - B Automation that learns from sensors and the Internet of Things.
 - C Scripting that learns randomly from unstructured data.
 - D Biological computing that learns from human emotions.
- 5 What part of the human body is the Artificial Neural Network based on?
- A Digestive system.
 - B Brain.
 - C Spinal Cord.
 - D Endocrine System.

- 6 What is a form of Artificial Intelligence?
- A Deep Learning.
 - B Statistics.
 - C Linear Algebra.
 - D Graph Theory.
- 7 Optical Character Recognition (OCR) uses machine learning to interpret which of the following?
- A Images of hand writing and text.
 - B Images and hand writing.
 - C Technical drawings and text.
 - D Road signs and markings.
- 8 In the specific context of Artificial Intelligence, what does NLP stand for?
- A Neuro Linguistic Programming.
 - B Natural Language Processing.
 - C Natural Linear Processing.
 - D Non-Linear Programming.
- 9 Swarm Intelligence and optimisation are used in what type of machine learning?
- A Revision.
 - B Repeat.
 - C Reinforcement.
 - D Reflective Practice.
- 10 Artificial Intelligence is associated with which industrial revolution?
- A Fourth.
 - B Third.
 - C Second.
 - D First.

- End of Paper -