1 **1** a **2** a **3** b **4** c **5** b **6** c

2
1 Alan Turning; computer
2 John McCarthy; field of AI
3 Arthur Samuel; checkers
4 Rodney Brooks; behavioural AI
5 IBM; chess
6 Frank Rosenblatt; perceptron model
7 DeepMind; Atari video games
8 Thomas Nagel; consciousness

3
1 knowledge-based AI
2 logic-based AI
3 behavioural AI
4 weak AI
5 strong AI
6 general AI
7 symbolic AI

4a
a post
b smaller ring
c ring

4b
1 initial
2 transforms
3 new
4 goal
5 process
6 states

5
1 control
2 reactive
3 avoiding
4 planning
5 modelling
6 follow

6a ***Model answers:***
1 A chatbot is a program that attempts to talk to users, usually on social media and often using little more than conversations built on keywords.
2 A software agent is part of a computer environment that works with us to do everyday tasks on personal computers and on the internet.
3 A simulated robot is a computer program made to behave like a real robot in a real situation, but it is not real.
4 A programming language like Python or Java works on different types of computers and hides the low-level details of the computer it is running on.
5 A puzzle is a game or activity in which you have to think carefully and put pieces together correctly, or answer questions.
6 An interface is the part of a computer system that passes information between one part of the system and another, or between the computer system and the user.

6b *Reader's own answer.*

7a *Reader's own answer.*

7b *Reader's own answer.*

8 *Reader's own answer.*

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