1a. Human rights

Algorithmic decision making that targets individuals for arrest without making the reasoning explicit, can be considered to violate Art. 9. Black box systems that create risk scores, if used by police to justify arrest or detention, could be considered a form of arbitrary arrest if they are based on arbitrary features (race, sex, location).

Art. 11 is somewhat similar, but with the idea going beyond arrest and covering determinations of criminal violation. The Dutch tax fraud scandal ("toeslagenaffaire") concerned administrative violations, not penal offences. However, we can imagine a comparable case where defendants do not have sufficient access to the reasons of an opaque system used as evidence, and therefore do not have "all the guarantees necessary" to defend themselves.

COMPAS was an example of an opaque system used in sentencing, hence it does not fall strictly under Articles 9 or 11. However, a similar system used as evidence fits the description.

Answers should specify which of the two articles is targeted. The main duty holder of human rights is typically nation states (signatories to the UDHR) and their governments.

1b. Four principles

+1 point Argument has three distinct steps (2 or 3 premises + 1 conclusion) and is ethical	•••
+2 points Argument is deductively valid	•••
+1 point Principle is clearly and correctly stated.	•••
+1 point Argument concerns AI or robots.	•••

1c. Goodall

Rule-based ethics and machine learning based on human ethical judgments, because this allows gradual progress. 2 points

1d. HCAI

Camera or one of Shneiderman's other examples

Elevator or one of Shneiderman's other examples

1e. Human skills and work

+2 points Zoller's argument basically correct.	•••
+1 point Refined understanding of Zoller's arguments	•••
+2 points Cogent application of "third way" going beyond exam text.	•••
+1 point Soundness correctly understood	•••

1f. Environmental impact of AI

+1 point Measuring and reporting climate impact	
+1 point Set standards for sustainable design of AI	•••
+1 point Clean energy for data centers	•••
+1 point Policy not feasible or equivalent	•••
+1 point Policy not desirable or equivalent	•••
+1 point Explanation	

1g. Self-driving cars

+1 point	
Validity and right conclusion	•••
+1 point	
Simple	***
+1 point	
Ballpark of responsibility condition	***
+1 point	
Specific and precise responsibility condition	•••

1h. explainability

Stakeholders do not have the required understanding of how complex data-driven decisions are made 1pt

People who operate data science systems are secretive about how these systems work 1pt

1i. explainability

Different stakeholders have different needs for knowledge and explanation with regard to algorithmic decision-making. 2 points

1j. Medical Al

•••
•••
•••
•••
•••

1k. AI in military applications

+1 point MHC definition in the ballpark (e.g., same as HCAI)	•••
+1 point TA definition in the ballpark	•••
+1 point Definitions strongly grounded in the literature	•••
+1 point Just warfare principle in ballpark	•••
+1 point Just warfare principle precise and sophisticated	•••
+1 point Cogent argumentation grounded in literature	•••

11. Generative AI

Originality

Time and effort invested

1m. Generative AI

True

1n. Generative Al

True