

CBSE CLASS X

Artificial Intelligence (417)

ANSWER KEY

From previous CBSE Board Exam questions

Code: C67OY5

Questions: 11

Maximum Marks: 16

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SELECTIONS USED

Source	Previous-year board
Subject	Artificial Intelligence
Lessons	Green Skills-II
Year	2022-2026
Questions selected	11

Composition — Types: 7 Short · 3 Assertion–reason · 1 MCQ

Q1. § Session 1: Sustainable Development

[2]

Define the term 'Sustainable Development'.

Previously asked in: 2026 104 Q10

♦ Green Skills-II

5.1 Sustainable Development

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Model Answer

Sustainable Development is defined as "*development that meets the needs of the present without compromising the ability of future generations to meet their own needs*" (World Commission on Environment and Development, 1987).

It guarantees a balance between economic growth, care for the environment, and social well-being, ensuring that natural resources are preserved for future generations.

Source: Chapter 5, Session 1 — Sustainable Development

Explanation

- The **exact definition** from WCED 1987 must be quoted — examiners expect it for full marks.
- The second sentence adds the **three pillars** (economic growth, environment, social well-being), which secures the second mark.
- Avoid writing a long paragraph; two focused sentences are sufficient for 2 marks.

Q2. § Session 1: Sustainable Development**[1]**

Choose the option which is NOT a Sustainable Development Goal according to United Nations.

- (A) Population
- (B) No poverty
- (C) Quality education
- (D) Reduced Inequalities

Previously asked in: 2026 104 Q1 (vi)

♦ Green Skills-II

5.1 Sustainable Development

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Model Answer**(A) Population**

"Population" is **not** a Sustainable Development Goal. The 17 SDGs by the United Nations include No Poverty, Quality Education, and Reduced Inequalities, but not Population.

Source: Chapter 5, Session 2 – Check Your Progress

Explanation

The textbook's own MCQ (Session 2, Check Your Progress) lists "Population" as the option that is **not** an SDG, confirming option (A) is correct. The 17 SDGs focus on goals like No Poverty, Quality Education, Clean Water, Gender Equality, and Reduced Inequalities — "Population" is not among them. Remember this as a direct one-liner fact for 1-mark questions.

Q3. § Session 1: Sustainable Development**[2]**

Define sustainable development. Write any two problems related to sustainable development.

Previously asked in: 2025 104/S Q6

♦ Green Skills-II

5.1 Sustainable Development

5.2 Our Role in Sustainable Development

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Model Answer

Sustainable Development: It is the development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

Two problems related to sustainable development:

1. **Food/Soil:** Fertile land is decreasing as it is being used for other purposes, and chemical fertilisers are depleting soil nutrients.
2. **Water:** Rivers and ponds are getting polluted due to dumping of garbage, leading to scarcity of clean water.

Source: Chapter 5, Session 1 — Sustainable Development

Explanation

- The definition must mention both **present needs** and **future generations** — examiners look for both parts.
- For the two problems, pick any two from Food, Water, or Fuel; name the problem clearly and give one supporting point each.
- Do not write long paragraphs — short, labelled points score better for this type of question.

Q4. § Introduction § Session 1: Sustainable Development**[1]**

Assertion (A) : Green skills are essential for sustainable development.

Reason (R) : They help in reducing environmental impact and promote eco-friendly practices.

- (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
- (C) Assertion (A) is true, but Reason (R) is false.
- (D) Assertion (A) is false, but Reason (R) is true.

Previously asked in: 2025 104/S Q1 (vi)

♦ Green Skills-II

5.1 Sustainable Development

5.2 Our Role in Sustainable Development

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Model Answer

(A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

Green skills promote eco-friendly practices and reduce environmental impact, which are core requirements for sustainable development.

Explanation

- The textbook states that sustainable development requires using environment-friendly technologies and practices, reducing environmental impact, and conserving resources — all of which are what green skills enable.
- Reason (R) directly explains *why* green skills are essential for sustainable development, making option (A) correct.
- In Assertion-Reason questions, check: (1) Is A true? (2) Is R true? (3) Does R logically explain A? Here, all three conditions are met.

Q5. § Introduction § Session 1: Sustainable Development § Session 2: Our Role in Sustainable Development

[2]

Discuss the following problems related to sustainable development :

(i) Water

(ii) Fuel

Previously asked in: 2024 104 Q10

♦ Green Skills-II 5.1 Sustainable Development 5.2 Our Role in Sustainable Development

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Model Answer

(i) Water: We use fresh water from rivers and ponds for drinking and cleaning but dump garbage into them, causing pollution. If this continues, after several years we will have no clean water left for our use.

(ii) Fuel: We use large amounts of wood from trees as fuel and for construction. As more trees are cut, it affects the climate, leading to extreme weather conditions like floods, extreme cold or heat.

Source: Chapter 5, Problems Related to Sustainable Development

Explanation

- Each sub-question gets roughly 1 mark, so 1–2 crisp sentences each is sufficient.
- Examiners look for: (i) the problem (pollution/dumping garbage) **and** the consequence (no clean water); (ii) the cause (cutting trees for fuel) **and** the consequence (climate change/extreme weather). Include both for full marks.
- Use the exact textbook language where possible — it matches the marking scheme closely.

Q6. § Introduction § Session 1: Sustainable Development

[1]

Assertion (A) : Sustainable agriculture is environment friendly.

Reason (R) : It prevents use of chemical fertilizers to protect soil.

(A) Both (A) and (R) are correct and (R) is the correct explanation of (A).

(B) Both (A) and (R) are correct but (R) is not the correct explanation of (A).

(C) (A) is correct but (R) is not correct.

(D) (A) is not correct but (R) is correct.

(A) Both (A) and (R) are correct and (R) is the correct explanation of (A).

(B) Both (A) and (R) are correct but (R) is not the correct explanation of (A).

(C) (A) is correct but (R) is not correct.

(D) (A) is not correct but (R) is correct.

Previously asked in: 2024 104 Q1 (iii)

♦ Green Skills-II

5.1 Sustainable Development

5.2 Our Role in Sustainable Development

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Model Answer

(C) (A) is correct but (R) is not correct.

Sustainable agriculture is indeed environment friendly, but it does not **prevent** use of chemical fertilizers — it involves **avoiding/preventing adverse effects** to soil, water and biodiversity by reducing chemical use, not an absolute prevention.

Explanation

The Assertion is correct — sustainable agriculture uses environment friendly farming methods without damaging natural systems. However, the Reason is worded incorrectly; the textbook states sustainable agriculture "involves preventing the use of chemicals so as to **avoid adverse effects** to soil, water and biodiversity" — it aims to minimise harmful impacts, and the reason's phrasing ("prevents use of chemical fertilizers to protect soil") is an oversimplification/inaccuracy. Hence (R) as stated is not fully correct, making option **(C)** the right answer.

Q7. § Introduction § Session 1: Sustainable Development § Session 2: Our Role in Sustainable Development

[2]

Give any two examples of how individual choices and behaviours can contribute in achieving sustainable development.

Previously asked in: 2024 104 Q6

♦ Green Skills-II 5.2 Our Role in Sustainable Development

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Model Answer

Two examples of how individual choices contribute to sustainable development:

1. **Using cloth bags instead of plastic bags** — Carrying cloth bags to the market reduces plastic waste, protecting soil and water from pollution.
1. **Switching off lights and fans when not in use** — This saves energy, reduces dependence on non-renewable fuels, and lowers environmental pollution.

Source: Chapter 5, Session 2 — Our Role in Sustainable Development

Explanation

The examiner expects **two distinct, practical examples** with a brief reason for each. Points like reusing materials, planting trees, using solar energy, repairing leaking taps, or avoiding plastic are all acceptable. Always link the action to an environmental benefit — that's what earns the full mark per point. Avoid vague answers like "save the environment" without specifying *how*.

Q8. § Introduction

[1]

Assertion (A) : Organic farming technique is an example of a green skill that is essential for sustainable agriculture.

Reason (R) : Organic farming technique prioritise environment friendly and sustainable practices such as using natural fertilisers, avoiding synthetic pesticides and promoting soil health.

- (a) Both (A) and (R) are true and (R) is the correct explanation for (A).
- (b) Both (A) and (R) are true and (R) is not the correct explanation of (A).
- (c) (A) is true, but (R) is false.
- (d) (A) is false, but (R) is true.

Previously asked in: 2024 104 Q1 (vi)

♦ Green Skills-II 5.1 Sustainable Development 5.2 Our Role in Sustainable Development

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Model Answer

(a) Both (A) and (R) are true and (R) is the correct explanation for (A).

Organic farming avoids chemical pesticides, uses natural fertilisers like cow dung, and maintains soil quality — directly making it an environment-friendly green skill essential for sustainable agriculture.

Explanation

The source passage explicitly states that organic farming is "a true example of sustainable development" where farmers use natural fertilisers, avoid chemical pesticides, and maintain soil quality for future use. This directly supports both the Assertion and shows the Reason correctly explains why organic farming qualifies as a green skill — making option (a) the correct choice. Examiners expect you to pick (a) when both statements are true AND the Reason logically justifies the Assertion.

Q9. § Session 1: Sustainable Development

[2]

Sustainable development can actually happen only when each one of us works towards it. Mention any four ways which we can do at our end to reduce inequality.

Previously asked in: 2022 104 Q6

♦ Green Skills-II

5.2 Our Role in Sustainable Development

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Model Answer

To reduce inequality, we can:

1. Be helpful to one another.
2. Be friendly with everyone.
3. Include everyone while working or playing.
4. Help others by including everyone, whether they are small or big, girl or boy, or belong to any class or caste.

Source: Chapter 5, Session 2 — Our Role in Sustainable Development, Reduced Inequalities

Explanation

The question asks specifically about **reducing inequality**, which is one of the 17 SDGs. The textbook lists exactly four points under "Reduced Inequalities" — write all four as numbered points for full marks. Avoid mixing in points from other SDG sections (like clean energy or water). In a 2-mark question, a neat numbered list is ideal — no lengthy explanations needed.

Q10. § Session 1: Sustainable Development

[1]

What is the major purpose of the Sustainable Development Goals?

Previously asked in: 2022 104 Q4

♦ Green Skills-II

5.1 Sustainable Development

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Model Answer

The major purpose of the Sustainable Development Goals (SDGs) is to end poverty, protect the planet, and ensure that all people enjoy peace and prosperity by 2030.

Source: Chapter 5, Sustainable Development Goals section

Explanation

The examiner expects the three-part purpose directly from the UN definition given in the textbook: **end poverty + protect the planet + ensure peace and prosperity**. Mentioning the 2030 deadline adds value. Do not write a long paragraph — one crisp sentence is enough for 1 mark.

Q11. § Introduction § Session 1: Sustainable Development

[1]

How food is one of the major problems related to sustainable development? Discuss briefly.

Previously asked in: 2022 104 Q2

♦ Green Skills-II

5.1 Sustainable Development

5.2 Our Role in Sustainable Development

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Model Answer

Food is a major problem because fertile land is decreasing as it is being used for other purposes, soil nutrients are getting depleted, and chemical fertilisers are spoiling the soil quality.

Explanation

For 1 mark, one clear sentence covering the key points is enough. Examiners look for: (1) loss of fertile land, (2) soil nutrient depletion, and (3) damage due to chemical fertilisers. All three are directly from the "Problems Related to Sustainable Development" section. Avoid writing more than one to two lines.

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