

CBSE CLASS X

# Artificial Intelligence (417)

## ANSWER KEY

From previous CBSE Board Exam questions

Code: 2Z5E45      Questions: 12      Maximum Marks: 17      Generated: 2026-06-21 02:53

### SELECTIONS USED

|                    |                                                    |
|--------------------|----------------------------------------------------|
| Source             | Previous-year board                                |
| Subject            | Artificial Intelligence                            |
| Lessons            | Information and Communication Technology Skills-II |
| Year               | 2022-2026                                          |
| Questions selected | 12                                                 |

Composition — Types: 6 MCQ · 5 Short · 1 Very short

### Q1.

[1]

Name any two search engines.

Previously asked in: 2025 104/S Q4 (vi); 2024 104 Q4 (v) — 2×

♦ Information and Communication Technology Skills-II

3.1 Basic Computer Operations

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### Model Answer

Two search engines are **Google** (www.google.com) and **Bing** (www.bing.com).

### Explanation

A search engine is a web-based tool used to search for information on the internet. Common examples include Google, Bing, Yahoo, and DuckDuckGo. For a 1-mark question, naming any two correct search engines is sufficient. Note: The source passages focus on computer security, so rely on general textbook knowledge for this answer.

Q2. § Computer Hardware and Software § Using the Keyboard § Check Your Progress (Session 1)

[1]

GUI stands for:

- (a) Graphical User Interaction
- (b) Graphical User Interface
- (c) Graphical Upper Interface
- (d) None of these

Previously asked in: 2023 104 Q1 (ii)

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**Model Answer****(b) Graphical User Interface****Explanation**

GUI (Graphical User Interface) refers to the visual way users interact with a computer using icons, windows, and menus. "Interface" is the correct term, not "Interaction" or "Upper Interface."

Q3. § Computer Hardware and Software

[1]

The most important software in any computer is the \_\_\_\_\_. This is the software that starts working as soon as we switch on a computer.

- (a) Web Browsers
- (b) Operating System
- (c) Office Software
- (d) Designing Software

Previously asked in: 2024 104 Q1 (iv)

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**Model Answer****(b) Operating System**

The most important software in any computer is the **Operating System (OS)**, which starts working as soon as we switch on a computer.

*Source: Computer Hardware and Software, Chapter 3*

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**Explanation**

The passage directly states: "The most important software in any computer is the Operating System (OS). This is the software that starts working as soon as we switch on a computer." Examiners expect you to identify option (b) and may also award marks for writing the full form — OS = Operating System.

## Q4. § Session 1: Basic Computer Operations

[2]

How ICT skills help us in our day-to-day activities ?

Previously asked in: 2026 104 Q8

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## 3.1 Basic Computer Operations

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**Model Answer**

ICT skills help us in the following ways in our day-to-day activities:

1. **Communication** – They help us communicate with others easily using digital devices like smartphones and laptops.
2. **Business** – They help us run our business efficiently.
3. **Stay connected** – They help us stay connected with family and friends through apps and the internet.

Source: Session 1, Basic Computer Operations, Chapter 3

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**Explanation**

The answer is directly from the source passage: *"ICT skills help us to communicate, run our business and stay connected with our family and friends."* For a 2-mark question, listing these three points briefly is sufficient. Examiners look for at least 2–3 valid uses. Avoid writing a long essay; 2–3 crisp points with a one-line explanation each is ideal.

## Q5. § Using a Mouse § Creating a Folder (in Ubuntu)

[1]

Right clicking on File or Folder opens

- (a) Main Menu
- (b) Shortcut Menu
- (c) Back Menu
- (d) Front Menu

Previously asked in: 2023 104 Q1 (iv)

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## 3.2 Performing Basic File Operations

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**Model Answer****(b) Shortcut Menu**

Right-clicking on a file or folder opens the **Shortcut Menu**, which gives options like 'New Folder', delete, rename, etc.

Source: Creating a Folder (in Ubuntu), Chapter 3

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**Explanation**

The passage states: "Right-click and then choose the 'New Folder'" — this context confirms that right-clicking opens a shortcut (context) menu with relevant options. The other options (Main Menu, Back Menu, Front Menu) are not standard or mentioned in the chapter. Examiners expect you to simply identify option **(b)**.

**Q6.** § Files and Folders**[1]**

Which file extension is commonly used for image files?

- (A) .txt
- (B) .exe
- (C) .jpg
- (D) .mp3

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

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3.2 Performing Basic File Operations

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An image file commonly uses the **.jpg** extension, while .txt is for text files, .exe for programs, and .mp3 for sound files.

Source: Files and Folders, Chapter 3

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**Explanation**

The passage explicitly states: *"An image file usually has an extension .jpg while a sound file usually has .mp3."*  
Eliminate distractors: .txt = Notepad/text, .exe = executable/program, .mp3 = audio. For MCQs, always support your choice with a brief reason — it shows understanding and can earn full marks.

**Q7.** § Removing SPAM from your Computer**[1]**

Spam refers to

- (A) Unnecessary images
- (B) Temporary files
- (C) Junk mails
- (D) Music files

Previously asked in: 2024 104 Q1 (ii)

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3.2 Performing Basic File Operations

**Generated by claude-sonnet-4-6 • 2026-06-21 03:19 • grounding rag****Model Answer****(C) Junk mails****Explanation**

Spam refers to unsolicited or junk emails sent in bulk. This is a standard IT literacy definition tested in CBSE. The source passages do not directly define spam, but option (C) is the universally accepted correct answer.

**Q8.** § Session 3: Computer Care and Maintenance § Session 4: Computer Security and Privacy § Computer Security Deals with Protecting **[2]**  
Computers

Enlist any two measures that an individual should follow to take care of his/her digital devices.

Previously asked in: 2024 104 Q9

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### Model Answer

Two measures an individual should follow to take care of digital devices:

1. **Keep devices away from dust and heat** — Avoid leaving devices in the sun and ensure the CPU fan is working to prevent overheating.
2. **Unplug the device once fully charged** — Leaving a device plugged in after 100% charge can cause it to overheat and stop functioning properly.

Source: *Computer Care and Maintenance, Chapter 3*

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### Explanation

- This is a 2-mark question, so **two clear, distinct points** are sufficient — one per mark.
- The examiner looks for practical, relevant measures directly linked to device care.
- Avoid vague answers like "be careful." Use specific actions (unplug after charging, keep away from dust/heat).
- Either measure from the textbook is acceptable — you could also mention using an anti-virus or cleaning the keyboard regularly.

Q9. § Threats to Computer § Check Your Progress (Session 4)

[2]

Define the following terms :

- (a) Firewall [1]
- (b) Worms [1]

Previously asked in: 2025 104/S Q10

♦ Information and Communication Technology Skills-II 3.4 Computer Security and Privacy

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**Model Answer**

**(a) Firewall:** A firewall is a security system that monitors and controls incoming and outgoing network traffic. It acts as a barrier between a trusted internal network and untrusted external networks to protect the computer from unauthorized access.

**(b) Worms:** Worms are a type of virus that replicate themselves and spread to all files once they attack a computer. Because they multiply rapidly, they are very difficult to detect and remove.

**Explanation**

- **Firewall** is not directly defined in the source passage, so use standard accepted CBSE definition — examiners expect this term to be defined from general IT knowledge covered in the chapter.
- **Worms** — copy the key points from the passage: *self-replication*, *spreads to all files*, and *difficult to remove*. These are the exact phrases examiners look for.
- Keep each answer to 1–2 lines for 1 mark each.

Q10. § Session 4: Computer Security and Privacy § Computer Security Deals with Protecting Computers § Protecting your Data

[2]

Mention any two measures that individuals or organisations can take to protect their data from theft and viruses.

Previously asked in: 2024 104 Q9

♦ Information and Communication Technology Skills-II 3.4 Computer Security and Privacy

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**Model Answer**

Two measures to protect data from theft and viruses:

1. **Use Strong Passwords:** Set passwords that are a mix of capital and small letters, numbers, and special characters (e.g., % # \$). This prevents unauthorised persons from accessing your computer.
1. **Install Anti-virus and Firewall:** Anti-virus software monitors incoming and outgoing data, prevents viruses from entering, and can detect and clean existing viruses.

Source: *Protecting your Data*, Chapter 3

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**Explanation**

- The question asks for **any two** measures — pick the two easiest to explain clearly; passwords and anti-virus are the most straightforward.
- Each measure should have a **name + brief explanation** to earn both marks (1 mark each).
- Avoid listing more than two; it wastes time in the exam.
- Key terms to use: *unauthorised access*, *anti-virus*, *firewall*, *strong password* — these signal correct understanding to the examiner.

**Q11.** § Check Your Progress (Session 4)**[1]**

What should a strong password consist of ?

- (A) Only letters
- (B) Numbers and special characters
- (C) Name of a person
- (D) Letters, numbers and special characters

Previously asked in: 2026 104 Q1 (iv)

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3.4 Computer Security and Privacy

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A strong password is a mix of small and capital letters, numbers, and special characters, making it difficult to guess or hack.

Source: Protecting your Data, Chapter 3

**Explanation**

The passage clearly states that passwords are hard to hack when they combine small letters, capital letters, numbers, and special characters. Options (A), (B), and (C) are incomplete — only option (D) covers all elements. Always remember this complete combination for any password-related question.

**Q12.** § Prepare a Maintenance Schedule § Scanning and Cleaning Viruses**[2]**

Gurmeet has just bought a new computer for his office. Suggest him any two points which he should keep in mind to prevent his computer from virus infection.

Previously asked in: 2023 104 Q9

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3.4 Computer Security and Privacy

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Gurmeet should keep the following points in mind to prevent virus infection:

1. **Install Anti-virus and Firewall:** Anti-virus software monitors data coming in and out of the computer, detects, and cleans any viruses before they can affect the data.
1. **Run a Full System Virus Scan Regularly:** As part of monthly maintenance, Gurmeet should run a full system virus scan and also check yearly that his anti-virus subscription has not expired and renew it if needed.

Source: Chapter 3, Scanning and Cleaning Viruses / Protecting your Data / Prepare a Maintenance Schedule

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**Explanation**

- The examiner expects **two distinct, named points** — just listing "install antivirus" twice in different words will not fetch both marks.
- Each point should have a brief justification (one line) — that's what earns the mark, not just the heading.
- Both points are directly from the source passages, so stick to these; do not invent points like "don't download pirated software" (not in the passage).

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