



Applaa UCAT Practice Mock 16

Mock Practice Exam Booklet

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Instructions & Study Method

Welcome to your Applaa offline practice booklet. Please follow these guidelines to maximize your learning outcome:

- 1. Distraction-Free Practice:** Solve the multiple-choice questions in Section 1 under timed conditions. Do not look for shortcuts or answers until you are completely done.
- 2. Check & Submit Online:** We have intentionally excluded the answer key from this printout. To get your score, see worked solutions, and track your progress metrics, open: <https://applaa.com/practice/check?exam=ucat&paper=16> on any browser. Bubble in your answers in our digital check sheet.
- 3. Learn with Appy Buddy (AI Socratic Tutor):** Applaa is a 100% ad-free educational space. Our online AI Tutor guides you step-by-step through questions you get wrong, showing you how to solve them rather than just giving you the answer.

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Section 1: Practice Questions

Question 1 — [Verbal Reasoning / true_false_cant_tell]

Read the passage below and decide if the following statement is True, False, or Can't Tell based on the text.

Passage: In 2020, research conducted by researchers led by Dr. Marcus Vance at the Renewable Energy Research investigated the properties of Aerogel. Initial experimental setups achieved an energy conversion efficiency of 24 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Aerogel to 41 percent in follow-up trials. Despite these promising results, commercial viability is currently limited by the high cost of raw precursor materials and safety regulations governing nanotechnology manufacturing. Statement: The research at the Renewable Energy Research was funded by a government scientific grant.

- A: True
- B: False
- C: Can't Tell

Question 2 — [Verbal Reasoning / true_false_cant_tell]

Read the passage below and decide if the following statement is True, False, or Can't Tell based on the text.

Passage: Public health campaigns in Greece during the late twentieth century made significant progress in combating infectious diseases. In 1985, the incidence rate of Malaria was recorded at 238 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 169 cases per 100,000 people over the next decade. While this decline was celebrated as a major victory, health officials warned that rising temperatures could allow vector populations to rebound in rural regions. Statement: The nationwide distribution of protective nets cost the government of Greece over ten million dollars.

- A: True
- B: False
- C: Can't Tell

Question 3 — [Verbal Reasoning / true_false_cant_tell]

Read the passage below and decide if the following statement is True, False, or Can't Tell based on the text.

Passage: In 2025, research conducted by researchers led by Dr. Chien-Shiung Wu at the Molecular Biology Unit investigated the properties of Carbon-Nanotubes. Initial experimental setups achieved an energy conversion efficiency of 17 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Carbon-Nanotubes to 35 percent in follow-up trials. Despite these promising results, commercial viability is currently limited by the high cost of raw precursor materials and safety regulations governing nanotechnology manufacturing. Statement: The research at the Molecular Biology Unit was funded by a government scientific grant.

- A: True
- B: False
- C: Can't Tell

Question 4 — [Verbal Reasoning / true_false_cant_tell]

Read the passage below and decide if the following statement is True, False, or Can't Tell based on the text.

Passage: In 2022, research conducted by researchers led by Prof. Elena Vance at the Genetic Engineering Center investigated the properties of Phosphorene. Initial experimental setups achieved an energy conversion efficiency of 15 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Phosphorene to 30 percent in follow-up trials. Despite these promising results, commercial viability is currently limited by the high cost of raw precursor materials and safety regulations governing nanotechnology manufacturing. Statement: Phosphorene became commercially viable immediately following the trials led by Prof. Elena Vance.

- A: True
- B: False
- C: Can't Tell

Question 5 — [Decision Making / venn_deduction]

Based on the Venn diagram, how many members belong to EXACTLY one club/group?

- A: 65
- B: 70
- C: 67
- D: 60

Question 6 — [Decision Making / error_checking]

How many of the four pictures in the left-hand column are exactly the same as the corresponding picture in the right-hand column?

- A: 0
- B: 1
- C: 2
- D: 3
- E: 4

Question 7 — [Decision Making / venn_deduction]

Based on the Venn diagram, how many members belong to both Dog Owners and Bird Owners?

- A: 2
- B: 9
- C: 17
- D: 7

Question 8 — [Decision Making / venn_deduction]

Based on the Venn diagram, how many members belong to EXACTLY one club/group?

- A: 89
- B: 76
- C: 69
- D: 79

Question 9 — [Quantitative Reasoning / chart_interpretation]

What is the simplified ratio of the revenue of Dept C to that of Dept B?

- A: 2:5
- B: 3:1
- C: 5:3
- D: 2:1
- E: 3:4

Question 10 — [Quantitative Reasoning / table_interpretation]

What is the percentage increase in sales of Product Beta from 2023 to 2025?

- A: 35.0%
- B: 30.0%
- C: 22.5%
- D: 40.4%
- E: 26.8%

Question 11 — [Quantitative Reasoning / chart_interpretation]

What is the simplified ratio of the revenue of Dept A to that of Dept B?

- A: 3:2
- B: 5:3
- C: 1:1
- D: 4:1
- E: 2:3

Question 12 — [Quantitative Reasoning / chart_interpretation]

What is the simplified ratio of the revenue of Dept A to that of Dept D?

- A: 11:13
- B: 1:3
- C: 3:2
- D: 1:2
- E: 3:4

Question 13 — [Abstract Reasoning / set_ab]

Does the Test Shape belong to Set A, Set B, or Neither?

- A: Set A
- B: Set B
- C: Neither

Question 14 — [Abstract Reasoning / sequence]

Which of the options completes the sequence shown in the diagram?

A: `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="40.0" y1="35" x2="10" y2="35" stroke="#000000" stroke-width="2" /><polygon points="60,35 40.0,25.0 40.0,45.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

B: `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="35" y1="40.0" x2="35" y2="10" stroke="#000000" stroke-width="2" /><polygon points="35,60 45.0,40.0 25.0,40.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

C: `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="35" y1="40.0" x2="35" y2="10" stroke="#000000" stroke-width="2" /><polygon points="35,60 45.0,40.0 25.0,40.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

D: `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="30.0" y1="35" x2="60" y2="35" stroke="#000000" stroke-width="2" /><polygon points="10,35 30.0,25.0 30.0,45.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

E: `<svg width="70" height="70" viewBox="0 0 70 70" xmlns="http://www.w3.org/2000/svg" style="background-color:#f8f9fa;border:1px solid #ced4da;"> <g><line x1="35" y1="40.0" x2="35" y2="10" stroke="#000000" stroke-width="2" /><polygon points="35,60 45.0,40.0 25.0,40.0" fill="#000000" stroke="#000000" stroke-width="1" /></g> </svg>`

Question 15 — [Abstract Reasoning / set_ab]

Does the Test Shape belong to Set A, Set B, or Neither?

- A: Set A
- B: Set B
- C: Neither

Question 16 — [Abstract Reasoning / set_ab]

Does the Test Shape belong to Set A, Set B, or Neither?

- A: Set A
- B: Set B
- C: Neither

Question 17 — [Situational Judgement / importance]

Scenario: A junior doctor, Chloe, in psychiatry at Southside Medical is considering whether to stay past her shift on Sunday night to finish routine paperwork. She has already worked 2 hours. How important is the following factor to consider? Factor: The doctor's current level of fatigue and its potential impact on accuracy.

- A: Very Important
- B: Important
- C: Of Minor Importance
- D: Not Important at All

Question 18 — [Situational Judgement / importance]

Scenario: A junior doctor, Chloe, has been asked by a colleague to swap a scheduled on-call shift in neurology at Southside Medical so the colleague can attend an event on on Sunday night. How important is the following factor to consider? Factor: The specific personal reason the colleague wants to swap the shift.

- A: Very Important
- B: Important
- C: Of Minor Importance
- D: Not Important at All

Question 19 — [Situational Judgement / importance]

Scenario: A medical student, Lily, at St. John's Clinic is deciding whether to report a classmate, Thomas, who was seen copying answers during a formative neurology test worth 22 points. How important is the following factor to consider? Factor: Whether the exam was a formative test or a formal summative exam.

- A: Very Important
- B: Important
- C: Of Minor Importance
- D: Not Important at All

Question 20 — [Situational Judgement / importance]

Scenario: A junior doctor, Olivia, in dermatology at St. John's Clinic is considering whether to stay past her shift on Tuesday morning to finish routine paperwork. She has already worked 6 hours. How important is the following factor to consider? Factor: The doctor's current level of fatigue and its potential impact on accuracy.

- A: Very Important
- B: Important
- C: Of Minor Importance
- D: Not Important at All

Submit Answers & Check worked Solutions

■ Section Complete!

You have completed this practice exam paper. To check your answers and view step-by-step worked explanations:

■ Go to: <https://applaa.com/practice/check?exam=ucat&paper;=16>

Simply bubble in your choices (e.g. A, B, C, D) and get instantly scored! You can then review the explanations or chat with Appy Buddy (AI Socratic tutor) to understand complex concepts.