



# Applaa UCAT Practice Mock 231

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;=231> 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 2015, research conducted by researchers led by Dr. Rosalind Franklin at the Materials Science Lab investigated the properties of Graphene. 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 Graphene 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: The research at the Materials Science Lab 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: During the mid-nineteenth and early twentieth centuries, global trade networks reshaped national economies. In 1837, the annual production of cotton in Turkey stood at approximately 40 million metric tons. Following key infrastructure improvements and trade agreements with Thailand, production in Turkey surged to 73 million metric tons by 1869. During this same period, Hungary emerged as the primary global importer of cotton, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: Thailand produced more cotton than Turkey did between 1837 and 1869.

- 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 2010, research conducted by researchers led by Dr. Marcus Vance at the Renewable Energy Research investigated the properties of Perovskite. Initial experimental setups achieved an energy conversion efficiency of 28 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Perovskite 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 team led by Dr. Marcus Vance managed to increase the energy conversion efficiency of Perovskite.

- 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: Public health campaigns in Venezuela during the late twentieth century made significant progress in combating infectious diseases. In 1999, the incidence rate of Tuberculosis was recorded at 137 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 43 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: Rising temperatures caused the incidence rate of Tuberculosis to increase during the campaign.

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

**Question 5 — [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 6 — [Decision Making / venn\_deduction]**

Based on the Venn diagram, how many members belong to AT LEAST two clubs/groups?

- A: 30
- B: 40
- C: 35
- D: 48

**Question 7 — [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 8 — [Decision Making / venn\_deduction]**

Based on the Venn diagram, how many members belong to Tennis and Swimming but NOT Athletics?

- A: 22
- B: 9
- C: 19
- D: 14

**Question 9 — [Quantitative Reasoning / chart\_interpretation]**

What is the combined revenue of Dept A and Dept D (in thousands)?

- A: \$140k
- B: \$120k
- C: \$160k
- D: \$170k
- E: \$130k

**Question 10 — [Quantitative Reasoning / table\_interpretation]**

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

- A: 54.5%
- B: 49.5%
- C: 46.3%
- D: 59.9%
- E: 63.6%

**Question 11 — [Quantitative Reasoning / chart\_interpretation]**

What is the combined revenue of Dept D and Dept A (in thousands)?

- A: \$190k
- B: \$220k
- C: \$200k
- D: \$180k
- E: \$230k

**Question 12 — [Quantitative Reasoning / chart\_interpretation]**

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

- A: 1:3
- B: 3:5
- C: 3:1
- D: 1:1
- E: 11:5

**Question 13 — [Abstract Reasoning / odd\_one\_out]**

Which of the following boxes does not belong with the others?

- A: Box A
- B: Box B
- C: Box C
- D: Box D
- E: Box E

**Question 14 — [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 15 — [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;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <circle cx="15.5" cy="50.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="51.5" cy="51.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="18.5" cy="18.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="54.5" cy="19.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> </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;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <circle cx="16.5" cy="49.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="18.5" cy="14.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="50.5" cy="53.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="49.5" cy="17.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> </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;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <circle cx="51.5" cy="18.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="50.5" cy="49.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="19.5" cy="50.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="18.5" cy="18.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> </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;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <circle cx="14.5" cy="49.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="49.5" cy="53.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="55.5" cy="14.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="16.5" cy="18.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> </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;"> <rect x="0" y="0" width="70" height="70" rx="4" ry="0" fill="#f8f9fa" stroke="#343a40" stroke-width="2" fill-opacity="1.0" /> <circle cx="14.5" cy="53.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="54.5" cy="19.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="53.5" cy="49.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="14.5" cy="14.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> </svg>`

**Question 16 — [Abstract Reasoning / odd\_one\_out]**

Which of the following boxes does not belong with the others?

- A: Box A
- B: Box B
- C: Box C
- D: Box D
- E: Box E

**Question 17 — [Situational Judgement / appropriateness]**

Scenario: A medical student, Hannah, at General Infirmary finds a public social media page run by a peer that posts mocking descriptions of patients from their urology placement, which has 17 active beds. How appropriate is the following action? Action: The student likes the posts and shares them in a private group chat with other students.

- A: A very appropriate thing to do
- B: Appropriate, but not ideal
- C: Inappropriate, but not awful
- D: A very inappropriate thing to do

**Question 18 — [Situational Judgement / appropriateness]**

Scenario: A junior doctor, Ruby, notices that a senior registrar at St. Anthony's has been prescribing metformin at an unusually high dose to multiple patients in the emergency department during the Wednesday day-shift. She is confident the dose exceeds safe guidelines. How appropriate is the following action? Action: The junior doctor raises her concern directly with the registrar first, and escalates it to the consultant if the issue remains unresolved.

- A: A very appropriate thing to do
- B: Appropriate, but not ideal
- C: Inappropriate, but not awful
- D: A very inappropriate thing to do

**Question 19 — [Situational Judgement / importance]**

Scenario: A junior doctor, Sophia, in dermatology at St. Anthony's is considering whether to stay past her shift on Wednesday evening to finish routine paperwork. She has already worked 12 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 20 — [Situational Judgement / importance]**

Scenario: A junior doctor, Grace, has been asked by a colleague to swap a scheduled on-call shift in hematology at Grace Medical Center so the colleague can attend an event on a busy Saturday shift. 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

# 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=ucac&paper;=231>

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.