



# Applaa UCAT Practice Mock 20

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;=20> 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 2016, research conducted by researchers led by Dr. Rosalind Franklin at the Quantum Computing Lab investigated the properties of Aerogel. Initial experimental setups achieved an energy conversion efficiency of 18 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Aerogel to 34 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: Aerogel became commercially viable immediately following the trials led by Dr. Rosalind Franklin.

- 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 1929, the annual production of sugar in Denmark stood at approximately 14 million metric tons. Following key infrastructure improvements and trade agreements with Morocco, production in Denmark surged to 70 million metric tons by 1967. During this same period, Ecuador emerged as the primary global importer of sugar, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: The annual production of sugar in Denmark was higher in 1967 than it was in 1929.

- 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: During the mid-nineteenth and early twentieth centuries, global trade networks reshaped national economies. In 1881, the annual production of lithium in Spain stood at approximately 73 million metric tons. Following key infrastructure improvements and trade agreements with Norway, production in Spain surged to 97 million metric tons by 1898. During this same period, Philippines emerged as the primary global importer of lithium, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: The annual production of lithium in Spain was higher in 1898 than it was in 1881.

- 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 2023, research conducted by researchers led by Prof. Lise Meitner at the Renewable Energy Research investigated the properties of Carbyne. Initial experimental setups achieved an energy conversion efficiency of 26 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Carbyne to 43 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 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 / 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 EXACTLY one club/group?

- A: 88
- B: 78
- C: 83
- D: 96

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

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

- A: 2
- B: 22
- C: 17
- D: 12

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

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

- A: \$150k
- B: \$170k
- C: \$160k
- D: \$190k
- E: \$200k

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

What are the average annual sales of Product Beta over the three-year period (in thousands)?

- A: \$180.5k
- B: \$176.2k
- C: \$188.7k
- D: \$197.8k
- E: \$203.7k

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

What are the average annual sales of Product Alpha over the three-year period (in thousands)?

- A: \$151.7k
- B: \$141.3k
- C: \$138.1k
- D: \$155.4k
- E: \$146.3k

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

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

- A: 6:5
- B: 1:1
- C: 3:2
- D: 3:1
- E: 4:1

**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 / 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 15 — [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 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 / appropriateness]**

Scenario: During a emergency ward round on a busy Saturday shift at Mercy Medical Center, a consultant asks a medical student, Grace, a clinical question. The student, who has been shadowing for 10 weeks, does not know the answer. How appropriate is the following action? Action: The student invents a plausible-sounding answer hoping the consultant will not notice.

- 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 medical student, Olivia, is assigned to work with Thomas on a hematology research project at Northside Clinic. Thomas has not attended meetings or responded to group emails. The project is due in 38 days. How appropriate is the following action? Action: The student completes all of Thomas's assigned research tasks herself without telling the supervisor.

- 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 / appropriateness]**

Scenario: A junior doctor, Lily, at Royal Hospital is running late on Friday night. A 64-year-old patient arrives 20 minutes late for their appointment on a ward with 33 beds, and the receptionist asks how to proceed. How appropriate is the following action? Action: The doctor asks the receptionist to reschedule the patient for the next available clinic day.

- 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 20 — [Situational Judgement / appropriateness]**

Scenario: During a general surgery ward round on Sunday night at Westside Clinic, a consultant asks a medical student, Lucy, a clinical question. The student, who has been shadowing for 8 weeks, does not know the answer. How appropriate is the following action? Action: The student invents a plausible-sounding answer hoping the consultant will not notice.

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

# 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;=20>

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.