Applaa UCAT Practice Mock 186

Mock Practice Exam Booklet

Applaa: Socratic Practice Engine

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https://applaa.com/practice/check?exam=ucat&paper=186

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;=186** 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.

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: During the mid-nineteenth and early twentieth centuries, global trade networks reshaped national economies. In 1937, the annual production of iron ore in Ukraine stood at approximately 20 million metric tons. Following key infrastructure improvements and trade agreements with Saudi Arabia, production in Ukraine surged to 41 million metric tons by 1958. During this same period, Australia emerged as the primary global importer of iron ore, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: The annual production of iron ore in Ukraine was higher in 1958 than it was in 1937.

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: In 2013, research conducted by researchers led by Prof. Alan Turing at the Quantum Computing Lab investigated the properties of Phosphorene. Initial experimental setups achieved an energy conversion efficiency of 16 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Phosphorene 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: The research team led by Prof. Alan Turing managed to increase the energy conversion efficiency of Phosphorene.

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: Public health campaigns in Kenya during the late twentieth century made significant progress in combating infectious diseases. In 1972, the incidence rate of Yellow Fever was recorded at 126 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 51 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 Yellow Fever to increase during the campaign.

A: True

B: False

C: Can't Tell

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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 2013, research conducted by researchers led by Prof. Dorothy Hodgkin at the Molecular Biology Unit investigated the properties of Germanene. 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 Germanene to 32 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: Germanene became commercially viable immediately following the trials led by Prof. Dorothy Hodgkin.

A: True

B: False

C: Can't Tell

Question 5 — [Decision Making / venn_deduction]

Based on the Venn diagram, how many members belong to Dog Owners and Cat Owners but NOT Bird Owners?

A: 14

B: 22

C: 4

D: 19

Question 6 — [Decision Making / venn_deduction]

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

A: 69

B: 63

C: 56

D: 61

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 AT LEAST two clubs/groups?

A: 26
B: 34
C: 24
D: 29

Question 9 — [Quantitative Reasoning / table_interpretation]

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

A: $142.4k
B: $132.0k
C: $124.5k
D: $137.0k
E: $146.1k

Question 10 — [Quantitative Reasoning / chart_interpretation]

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

A: $180k
B: $200k
C: $190k
D: $170k
E: $160k

Question 11 — [Quantitative Reasoning / chart_interpretation]

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

A: $100k
B: $120k
C: $150k
D: $130k
E: $110k

Question 12 — [Quantitative Reasoning / chart_interpretation]

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

A: $190k
B: $200k
C: $210k
D: $230k
E: $180k

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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;"> <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="54.5" cy="49.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="16.5" cy="55.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> <circle cx="17.5" cy="18.5" r="10.08" fill="#888888" stroke="#000000" stroke-width="2" fill-opacity="1.0" /> </svg>

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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

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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 busy junior doctor, Ruby, at Westside Clinic is asked by a nurse to prescribe albuterol for a 68-year-old patient in the neurology ward she has not yet met or reviewed. She has been on shift for 3 hours. How appropriate is the following action? Action: The doctor writes the prescription over the phone without reviewing the patient's chart or history.

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 / importance]

Scenario: A doctor, Mia, in the cardiology clinic at St. Anthony's is treating a 16-year-old patient who presents with physical injuries on Wednesday evening. The teenager, who is accompanied by a relative, begs the doctor not to tell anyone. How important is the following factor to consider? Factor: The child protection and safeguarding duties of the medical team.

A: Very Important

B: Important

C: Of Minor Importance

D: Not Important at All

Question 19 — [Situational Judgement / appropriateness]

Scenario: A medical student, Sophie, on a general surgery placement at Hope Hospital is told by a 90-year-old patient in confidence on Sunday night that they plan to physically harm their partner later that day. How appropriate is the following action? Action: The student promises to keep this completely confidential to maintain the patient's trust.

A: A very appropriate thing to do

B: Appropriate, but not ideal

C: Inappropriate, but not awful

D: A very inappropriate thing to do

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Question 20 — [Situational Judgement / appropriateness]

Scenario: A medical student, Alice, on a cardiology placement at St. Jude's Hospital is told by a 71-year-old patient in confidence on Sunday night that they plan to physically harm their partner later that day. How appropriate is the following action? Action: The student promises to keep this completely confidential to maintain the patient's trust.

A: A very appropriate thing to do

B: Appropriate, but not ideal

C: Inappropriate, but not awful

D: A very inappropriate thing to do

Check Answers: applaa.com/practice/check?exam=ucat&paper=186

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;=186**

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.