Applaa UCAT Practice Mock 226

Mock Practice Exam Booklet

Applaa: Socratic Practice Engine

Submit and grade your answers online for instant worked solutions:

https://applaa.com/practice/check?exam=ucat&paper=226

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;=226** 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: In 2014, research conducted by researchers led by Prof. Richard Feynman at the Molecular Biology Unit investigated the properties of Graphene. Initial experimental setups achieved an energy conversion efficiency of 27 percent. By refining the chemical vapor deposition process and reducing crystalline defects, the team successfully boosted the efficiency of Graphene to 51 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: Graphene became commercially viable immediately following the trials led by Prof. Richard Feynman.

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 2025, research conducted by researchers led by Prof. Richard Feynman at the Genetic Engineering Center investigated the properties of Gallium-Nitride. 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 Gallium-Nitride to 38 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. Richard Feynman managed to increase the energy conversion efficiency of Gallium-Nitride.

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 1934, the annual production of tea in Czechia stood at approximately 34 million metric tons. Following key infrastructure improvements and trade agreements with Singapore, production in Czechia surged to 61 million metric tons by 1949. During this same period, Chile emerged as the primary global importer of tea, consuming over sixty percent of the total global export supply, although its domestic production remained minimal. Statement: Singapore produced more tea than Czechia did between 1934 and 1949.

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: Public health campaigns in Malaysia during the late twentieth century made significant progress in combating infectious diseases. In 2002, the incidence rate of Tuberculosis was recorded at 221 cases per 100,000 people. Following a nationwide distribution of protective nets and sanitation improvements, the rate fell to 133 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 Malaysia over ten million dollars.

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: 22
B: 30
C: 25
D: 35

Question 7 — [Decision Making / venn_deduction]

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

A: 24
B: 39
C: 34
D: 29

Question 8 — [Decision Making / venn_deduction]

Based on the Venn diagram, how many members belong to both Tennis and Athletics?

A: 20
B: 15
C: 23
D: 10

Question 9 — [Quantitative Reasoning / chart_interpretation]

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

A: $170k
B: $200k
C: $210k
D: $190k
E: $220k

Question 10 — [Quantitative Reasoning / chart_interpretation]

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

A: 4:7
B: 5:3
C: 5:2
D: 1:4
E: 2:3

Question 11 — [Quantitative Reasoning / table_interpretation]

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

A: 58.2%
B: 36.6%
C: 49.1%
D: 44.1%
E: 54.5%

Question 12 — [Quantitative Reasoning / chart_interpretation]

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

A: 2:3
B: 15:13
C: 2:5
D: 1:3
E: 5:3

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

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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 / 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" /> <polygon points="50.5,6.9 63.1,19.5 50.5,32.1 37.9,19.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="51.5,38.9 64.1,51.5 51.5,64.1 38.9,51.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="16.5,41.9 29.1,54.5 16.5,67.1 3.9000000000000004,54.5" fill="#888888" stroke="#000000" stroke-width="2" /> <polygon points="16.5,6.9 29.1,19.5 16.5,32.1 3.9000000000000004,19.5" fill="#888888" stroke="#000000" stroke-width="2" /> </svg>

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Question 16 — [Abstract Reasoning / sequence]

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

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Question 17 — [Situational Judgement / importance]

Scenario: A doctor, Mia, in the oncology clinic at Grace Medical Center is treating a 16-year-old patient who presents with physical injuries during a late-night shift. 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

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Question 18 — [Situational Judgement / appropriateness]

Scenario: During a urology ward round on Thursday morning at University Hospital, a consultant asks a medical student, Lucy, a clinical question. The student, who has been shadowing for 5 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 19 — [Situational Judgement / appropriateness]

Scenario: A junior doctor, Jessica, notices that a senior registrar at Saint Luke's has been prescribing aspirin at an unusually high dose to multiple patients in the oncology department on Friday night. 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 20 — [Situational Judgement / importance]

Scenario: A medical student, Mia, at Valley View is deciding whether to speak up during a consultation in urology on Tuesday morning when they notice a mistake in the treatment plan for a 87-year-old patient. How important is the following factor to consider? Factor: The gender of the patient being treated.

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;=226**

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.