

# Sample Test Ca' Foscari International College 2026

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1. Eclipse is to Shadow as Echo is to:
  - (a) Sound
  - (b) Light
  - (c) Voice
  - (d) Silence
  
2. You have a jar filled with 50 marbles, 10 of which are red and the rest are white. If you are blindfolded and can only pick marbles one at a time without placing them back into the jar, what is the minimum number of marbles you need to pick to guarantee that you have at least two red marbles?
  - (a) 2
  - (b) 11
  - (c) 42
  - (d) 50
  
3. A prison warden gives a prisoner a chance to win their freedom. The warden places two doors in front of the prisoner. One door leads to freedom, and the other leads to imprisonment. The prisoner is told: - There are two guards, one guarding each door. - One guard always tells the truth, and the other always lies. - The prisoner can ask only one question to determine which door leads to freedom.

What single question should the prisoner ask?

  - (a) "Does your door lead to freedom?"
  - (b) "Is the other guard the one who tells the truth?"
  - (c) "What would the other guard do if I walked through your door?"
  - (d) "If I were to ask the other guard which door leads to freedom, what would they say?"
  
4. Which of these best redefines a fork in a way that expands its original meaning?
  - (a) A metal spear for vegetables
  - (b) A musical note holder
  - (c) A bridge between hand and hunger
  - (d) A mechanical leaf picker
  
5. A cyclist completes a journey of 60 km in 4 hours. For the first half of the total distance of the journey, they cycle at an average speed of 15 km/h. What is their average speed during the remaining 30 km of the journey?

- (a) 15 km/h
- (b) 20 km/h
- (c) 25 km/h
- (d) 30 km/h

6. In a class of 30 students, 40% of the students are enrolled in the math club, 50% are enrolled in the science club, and 20% are enrolled in both clubs. How many students are in neither the math club nor the science club?

- (a) 3
- (b) 5
- (c) 24
- (d) 9

7. The following table shows the production of two factories, A and B, over four months. Each factory's production is in tonnes.

<b>Month</b>	<b>Factory A</b>	<b>Factory B</b>
January	200	250
February	220	240
March	210	260
April	230	270

If both factories' monthly productions are combined, what is the percentage increase in total production from January to April?

- (a) 10%
- (b) Between 10% and 12.5%
- (c) Between 12.5% and 15%
- (d) More than 15%

8. In a group of people, 70 individuals drink coffee, 40 individuals drink tea, and 25 drink both coffee and tea. If a randomly selected person drinks tea, what is the probability that they also drink coffee?

- (a)  $\frac{5}{8}$
- (b)  $\frac{25}{70}$
- (c)  $\frac{7}{10}$
- (d)  $\frac{10}{25}$

9. To qualify for an exclusive membership, applicants must complete a set of challenges and attend all required seminars. Out of 500 applicants, 400 successfully completed the challenges, and 350 attended all seminars. How many applicants qualified for the membership?

- (a) At least 250
- (b) Exactly 350
- (c) No more than 300
- (d) At least 350

10. If  $\log_2(x + 2) - \log_2(x) = 3$ , what is the value of  $x$ ?

- (a)  $2/9$
- (b)  $2/7$
- (c)  $3/7$
- (d)  $2/3$

11. Consider the following sequence of numbers:

2, 6, 12, 20, 30, 42, ...

What will be the 10th number in the sequence?

- (a) 56
- (b) 90
- (c) 110
- (d) 100

12. Solve the quadratic equation:

$$x^2 - 6x + 8 = 0$$

What are the values of  $x$ ?

- (a)  $(x = 1/2, x = 4)$
- (b)  $(x = 2, x = 4)$
- (c)  $(x = 3, x = 8/3)$
- (d)  $(x = -4, x = 2)$

13. A rectangle has a length that is twice its width. If the perimeter of the rectangle is 72 cm, what is the area of the rectangle?

- (a) 144 cm<sup>2</sup>
- (b) 1152 cm<sup>2</sup>
- (c) 576 cm<sup>2</sup>
- (d) 288 cm<sup>2</sup>

14. A team of 8 workers builds 320 parts in 10 hours. If the number of workers increases to 12, and the production rate per worker remains constant, how many parts can the team build in 7 hours?

- (a) 336 parts
- (b) 432 parts
- (c) 224 parts
- (d) 480 parts

15. Which of the following pairs correctly matches the instrument to its type: brass or reed?

- (a) Trumpet - Reed
- (b) Saxophone - Reed
- (c) Trombone - Reed
- (d) Clarinet - Brass

16. Consider the argument: "No one has proven that aliens don't exist, so they must be out there." Which fallacy is committed here?

- (a) Hasty generalization
- (b) False cause
- (c) Appeal to ignorance
- (d) Red herring

17. Consider the argument: "Yes, I may have cheated on the test, but don't you think the real problem is how unfair the teacher is to students?" Which logical fallacy is most clearly demonstrated?

- (a) Ad hominem
- (b) Red herring
- (c) Appeal to emotion
- (d) False cause

18. Consider the argument: "Students who sleep with their textbooks under their pillows perform better on tests. Therefore, sleeping with textbooks improves performance." What best explains why this argument is flawed?
- (a) Not all students own physical textbooks
  - (b) Students who do this may already be high achievers
  - (c) It's difficult to sleep comfortably this way
  - (d) Test performance is unrelated to sleep habits
19. Consider the argument: "To reduce litter, the city should raise fines for dropping trash. Higher penalties will make people more cautious." Which assumption is necessary for the recommendation to be effective?
- (a) People care about cleanliness
  - (b) The city can afford to enforce the policy
  - (c) People are aware of the new fine
  - (d) The current penalty is too low to deter littering
20. Consider the argument: "Artificial intelligence should never be allowed to make life-or-death decisions because only humans can understand moral responsibility." Which of the following assumptions underlies this argument?
- (a) Moral reasoning requires emotions
  - (b) Humans are always morally accountable
  - (c) Understanding moral responsibility is necessary to make moral decisions
  - (d) Life-or-death decisions are common in AI applications
21. Consider the argument: "A ban on single-use plastic bags will reduce environmental damage." Which of the following, if true, most strengthens the argument?
- (a) Plastic bag usage has decreased in countries with bans
  - (b) Some consumers reuse plastic bags for garbage
  - (c) Biodegradable bags are more expensive
  - (d) Retailers oppose plastic bans
22. Consider the argument: "Reading every day improves vocabulary. Therefore, students who read every day will score higher on vocabulary tests." Which assumption underlies this argument?
- (a) Students who don't read have poor vocabulary
  - (b) Vocabulary test scores reflect actual vocabulary skill

- (c) All students take vocabulary tests
- (d) Reading material always includes new vocabulary

23. Consider the argument: "We either ban all social media, or society will collapse under the weight of misinformation." Which fallacy best describes the reasoning here?

- (a) Red herring
- (b) False dilemma
- (c) Circular reasoning
- (d) Appeal to authority

24. Consider the argument: "People who support space exploration want to waste billions on robots instead of solving poverty. Clearly, they don't care about real human issues." Which fallacy does this commit?

- (a) Slippery slope
- (b) Red herring
- (c) Straw man
- (d) Circular reasoning

25. Consider the argument: "Because climate change poses a threat to national security, funding environmental research is as important as funding military defense." Which of the following would most seriously weaken the argument?

- (a) Military threats are more immediate than climate risks
- (b) Environmental research is often underfunded
- (c) Most people are more concerned about defense
- (d) Climate change is primarily a global, not national, issue

26. Which of the following best explains why the fall of Constantinople in 1453 was more than just a regional military loss?

- (a) It led to the direct colonization of Africa by the Ottoman Empire
- (b) It marked the beginning of the Enlightenment in Western Europe
- (c) It triggered European efforts to find new trade routes, leading to global exploration
- (d) It caused the immediate collapse of feudalism across Europe

27. In traditional Chinese imperial art, dragons are frequently depicted in royal clothing and architecture. What was the symbolic function of the dragon in this context?

- (a) It symbolized chaos that needed to be tamed by scholars
- (b) It represented the ancestors of the emperor
- (c) It was an imported symbol from Hindu mythology
- (d) It signified the emperor's divine authority and cosmic role

28. Consider this primary source excerpt:

*"We move them for their own good, to teach them the ways of civilization."* – U.S. Government official, 1830s

What is the best critical interpretation of this statement?

- (a) It suggests a humanitarian policy toward Native tribes
- (b) It uses paternalistic language to justify forced removal
- (c) It supports Native sovereignty through cultural education
- (d) It reflects tribal requests for relocation and protection

29. Consider this primary source excerpt:

*"The Emperor is divine. To disobey him is to betray the nation."* – Textbook used in Japanese schools, 1930s

Which of the following best characterizes the reliability of this source?

- (a) Completely neutral and factual
- (b) Likely biased due to its propagandistic tone
- (c) Objective because it was used in education
- (d) Based on international consensus at the time

30. A teacher gives extra exam time only to students who ask for it, without verifying need or disability. Which ethical concern does this raise most directly?

- (a) Respect for authority
- (b) Ensuring fairness and equal treatment
- (c) Encouraging self-advocacy
- (d) Promoting school reputation

31. Which of the following is a valid modus ponens argument?

- (a) If it rains, the ground gets wet. It did not rain. Therefore, the ground is not wet.
- (b) If the alarm rings, we leave. The alarm rang. Therefore, we leave.
- (c) Either it is Tuesday or it is raining. It is Tuesday. Therefore, it is raining.

(d) If I study, I pass. I passed. Therefore, I studied.

32. Which of the following biomes is characterized by low rainfall, sparse vegetation, and large daily temperature variation?

(a) Tundra

(b) Desert

(c) Savanna

(d) Temperate forest

33. Which explorer is credited with circumnavigating the globe, even though he died before the voyage was completed?

(a) Marco Polo

(b) Vasco da Gama

(c) Ferdinand Magellan

(d) Amerigo Vespucci

34. Which of the following best describes the concept of corporate social responsibility (CSR)?

(a) A company's responsibility to maximize profits for its shareholders.

(b) A company's obligation to operate in a way that benefits society and the environment.

(c) A company's focus on reducing its product prices below market rates.

(d) A company's legal responsibility to comply with government regulations.

35. The Cuban Missile Crisis (1962) was a major standoff between which two world powers?

(a) United Kingdom and Soviet Union

(b) China and the United States

(c) United States and Soviet Union

(d) France and Cuba

36. Which of the following is an example of dramatic irony?

(a) A character speaks directly to the audience

(b) A character makes a pun

(c) The audience knows something the characters do not

(d) A statement contradicts itself but reveals truth

37. Which particle is responsible for carrying the electromagnetic force?

- (a) Proton
- (b) Electron
- (c) Photon
- (d) Neutrino

38. Which of the following statements about the trade balances of the European Union with major trading partners in 2024 is correct?

- (a) The EU had a trade deficit with China and a trade surplus with the United States
- (b) The EU had a trade surplus with China and a trade deficit with the United States
- (c) The EU had a trade deficit with both China and the United States
- (d) The EU had a trade surplus with both China and the United States

39. In traditional Japanese aesthetics, what concept refers to the beauty of imperfection and impermanence?

- (a) Zen
- (b) Kintsugi
- (c) Wabi-sabi
- (d) Ikebana

40. Which of the following countries is landlocked?

- (a) Vietnam
- (b) Ethiopia
- (c) Thailand
- (d) Colombia

41. In the Legend of Zelda series, what is the name of the main protagonist who embarks on a journey to rescue Princess Zelda?

- (a) Ganon
- (b) Link
- (c) Luigi
- (d) Toad

42. Which architect is known for the phrase “less is more” and for pioneering minimalist modernist architecture?

- (a) Frank Lloyd Wright
- (b) Antoni Gaudí
- (c) Le Corbusier
- (d) Ludwig Mies van der Rohe

43. Which swimmer holds the record for the most Olympic gold medals in swimming?

- (a) Michael Phelps
- (b) Katie Ledecky
- (c) Mark Spitz
- (d) Ian Thorpe

44. Which language is not part of the Indo-European language family?

- (a) Greek
- (b) Persian
- (c) Finnish
- (d) Sanskrit

45. Which country is NOT a Socialist Republic?

- (a) Cuba
- (b) China
- (c) Vietnam
- (d) Yemen

46. Which organ is responsible for filtering blood and producing urine?

- (a) Liver
- (b) Pancreas
- (c) Kidneys
- (d) Bladder

47. Which of the following is an example of a tariff?

- (a) A government subsidy given to local farmers to encourage production.

- (b) A tax imposed on goods imported from another country.
- (c) A ban on the sale of certain foreign products within a country.
- (d) A regulation that sets a limit on the amount of a good that can be imported.

48. Which operating system serves as the foundation for Android?

- (a) HarmonyOS
- (b) iOS
- (c) Linux
- (d) Symbian OS

49. When evaluating a web-based source for research, which of the following is NOT a critical factor for assessing its credibility?

- (a) Whether the website has a professional design and layout
- (b) Whether the website is affiliated with a university, government, or reputable institution
- (c) The presence of references and citations supporting the claims made
- (d) Whether the website includes advertisements or has a commercial agenda

50. A tech company has developed a new AI algorithm that can predict criminal behavior. The company is considering selling this technology to law enforcement agencies. Which of the following is the most important ethical consideration before moving forward?

- (a) Ensuring the AI system is accurate and free of bias to prevent unjust profiling.
- (b) Ensuring the technology is affordable and accessible to all law enforcement agencies.
- (c) Ensuring the AI algorithm does not violate any intellectual property rights.
- (d) Focusing on how the technology can increase law enforcement efficiency.

51. The concept of “survival of the fittest” from evolutionary biology was historically misapplied to justify certain social and political ideologies. What is this misapplication commonly known as?

- (a) Genetic engineering
- (b) Social Darwinism
- (c) Environmental determinism
- (d) Rational individualism

52. A company is launching a new product in a highly competitive market. To maximize its chances of success, which of the following strategies would be the most effective?

- (a) Reducing the product price significantly to attract customers and gain rapid market share.
- (b) Focusing primarily on aggressive marketing campaigns to build strong brand recognition.
- (c) Conducting thorough market research to refine product positioning and create unique value for customers.
- (d) Expanding into multiple product categories early to establish a broad consumer base and reduce risk.

53. A city is facing rapid population growth, which has led to increased congestion and pollution. The city has limited space for new infrastructure projects. Which of the following interdisciplinary strategies would most effectively address these issues?

- (a) Expanding the public transport system, coupled with restrictions on private car use.
- (b) Increasing the number of private vehicles and expanding roadways to reduce congestion.
- (c) Restricting growth by limiting the population and enforcing strict zoning laws.
- (d) Developing a completely new mode of transportation, such as flying cars, to bypass congestion.

54. You have four identical L-shaped blocks. Which of the following structures cannot be built using these four blocks?

- (a) A flat square
- (b) A tall vertical stack
- (c) A perfect cube
- (d) A stair-step structure

55. A triangle with vertices  $A(1, 2)$ ,  $B(3, 4)$ , and  $C(5, 2)$  is reflected across the  $y$ -axis. What are the new coordinates of vertex  $A$ ?

- (a)  $(1, -2)$
- (b)  $(-1, 2)$
- (c)  $(2, -1)$
- (d)  $(-2, -1)$

56. Amid growing concerns over climate change, researchers have been exploring innovative methods to combat its effects. One promising approach involves capturing carbon dioxide directly from the atmosphere and storing it underground in geological formations. While this method could significantly reduce greenhouse gas levels, its implementation requires substantial funding and public support.

Which of the following is the primary challenge mentioned regarding carbon capture technology?

- (a) Technical complexity
- (b) Public opposition
- (c) Financial requirements
- (d) Lack of geological formations

57. Choose the word that best matches the definition below:

“Demonstrating careful attention to detail and precision.”

- (a) Meticulous
- (b) Exacting
- (c) Methodical
- (d) Sloppy

58. Choose the word that best matches the definition below:

“Expressing something in a concise and clear manner.”

- (a) Succinct
- (b) Laconic
- (c) Cogent
- (d) Precise

59. Which of the following sentences best exemplifies a professional, respectful, and formal request for assistance in a workplace environment, balancing courtesy and urgency?

- (a) It would be greatly appreciated if you could allocate time to address this matter with urgency, as it is crucial for our progress.
- (b) Could you kindly dedicate some time to this task at your earliest convenience?
- (c) Immediate attention to this matter is essential and expected to ensure its resolution without delay.
- (d) Please prioritize this issue immediately, as further delays will be unacceptable.

60. A recent study revealed that urban green spaces not only contribute to environmental benefits but also enhance mental well-being. Researchers observed that individuals who regularly spent time in parks or gardens reported lower stress levels and improved mood. Despite these findings, cities with dense populations often struggle to allocate land for such spaces.

What is one challenge mentioned in the text regarding urban green spaces?

- (a) Lack of funding
- (b) Difficulty in land allocation
- (c) Limited public interest
- (d) Insufficient environmental impact

61. During a team meeting, Sarah said to John, "It might be a good idea to revisit the project timeline, just to make sure everything is on track."

What is Sarah indirectly suggesting to John?

- (a) Sarah thinks the project timeline is already perfect.
- (b) Sarah wants John to take another look at the project timeline.
- (c) Sarah believes there is no need to worry about the project timeline.
- (d) Sarah wants to cancel the current project timeline entirely.

62. Which statement best illustrates the role of "perspective" in shaping human understanding?

- (a) Facts are constant, unaffected by interpretation.
- (b) Personal experiences always distort reality.
- (c) Perspectives shape how events are understood.
- (d) Only universal truths matter for understanding.

63. Choose the option that best completes the sentence:

The professor's explanation was so \_\_\_\_\_ that even the students who had previously struggled with the concept were able to grasp it with remarkable clarity.

- (a) lucid
- (b) intricate
- (c) compelling
- (d) elaborate

64. The city council recently approved a proposal to revitalize the old industrial district, transforming it into a hub for arts, culture, and innovation. The project will include the construction of galleries, theaters, and co-working spaces, alongside public parks and affordable housing. Advocates argue that the redevelopment will boost the local economy and attract talent, though some residents express concerns about potential gentrification.

What is one of the benefits mentioned regarding the redevelopment of the old industrial district?

- (a) Increased tourism
- (b) Improved public transportation
- (c) Economic growth
- (d) Preservation of historical buildings

65. During a heated debate, Alex said to Jamie: "I suppose you always know better, don't you?"

What is Alex's tone in the statement, and what is he most likely trying to convey?

- (a) Ironic, used to subtly highlight a disagreement.
- (b) Doubtful, suggesting uncertainty about Jamie's position.
- (c) Respectful, to acknowledge Jamie's presumed superior knowledge.
- (d) Assertive, to firmly reaffirm his own position in the debate.