- Minor planets are astronomical objects that orbit the Sun but are neither planets nor comets.
- Astronomer Jane Luu has discovered many minor planets in her career.
- Alongside colleague David C. Jewitt, she discovered the minor planet (15836) 1995 DA2 on February 24, 1995.
- Alongside colleagues David C. Jewitt, Chadwick Trujillo, and K. Berney, she discovered the minor planet (24952) 1997 QJ4 on August 28, 1997.

24 Mark for Review

Which choice most effectively uses information from the given sentences to emphasize the discovery of (15836) 1995 DA2 to an audience already familiar with Jane Luu?

(A) First there was the discovery of (15836) 1995 DA2 on February 24, 1995, and then on August 28, 1997, Jane Luu discovered yet another minor planet with the help of her colleagues David C. Jewitt, Chadwick Trujillo, and K. Berney.

(B) Astronomer Jane Luu helped discover not only the minor planet (15836) 1995 DA2 on February 24, 1995, but also (24952) 1997 QJ4 on August 28, 1997.

(C) Jane Luu is an astronomer famous for her discovery of many minor planets in our solar system, including (15836) 1995 DA2.

(D) On February 24, 1995, Jane Luu and her colleague David C. Jewitt made the exciting discovery of the minor planet (15836) 1995 DA2.

- Soo-Bong Kim is a South Korean particle physicist.
- Particle physicists study subatomic particles.
- Neutrinos are some of the least understood subatomic particles.
- Kim is known for his research on neutrino oscillations.

25 Mark for Review

Which choice most effectively uses information from the given sentences to specify what type of neutrino research Kim is known for?

(A) Neutrinos are a type of subatomic particle that particle physicists are still trying to understand.

(B) Soo-Bong Kim, whose research involves particle physics, is from South Korea.

(C) In the ongoing pursuit to better understand these subatomic particles, particle physicist Soo-Bong Kim is known for his research on neutrino oscillations.

(D) One scientist who has worked to advance our understanding of neutrinos is the South Korean particle physicist Soo-Bong Kim.

While researching a topic, a student has taken the following notes:

- The Museu de les Ciències Príncipe Felipe is in Valencia, Spain.
- It is home to a Foucault pendulum.
- Vasile Alecsandri National College is in Galați, Romania.
- It is home to a Foucault pendulum.
- A Foucault pendulum dangles from a fixed point that ensures the swing path of the pendulum doesn't change.
- To an observer, the swing path of a Foucault pendulum appears to change over time because Earth rotates beneath it.

26 Mark for Review

The student wants to emphasize a similarity between the two locations. Which choice most effectively uses relevant information from the notes to accomplish this goal?

(A) Because Earth rotates beneath it, the swing path of the Foucault pendulum at the Museu de les Ciències Príncipe Felipe appears to change over time.

(B) The Museu de les Ciències Príncipe Felipe, which is home to a Foucault pendulum, is in Spain, not Romania.

(C) The Museu de les Ciències Príncipe Felipe in Valencia, Spain, and Vasile Alecsandri National College in Galați, Romania, both house Foucault pendulums.

(D) One Foucault pendulum is in Spain, and the other is in Romania.

- The Music by Black Composers (MBC) project aims to inspire aspiring music students by archiving and sharing information about the music of Black classical composers.
- William Benjamin Cooper is a Black classical music composer included in MBC's Historic Composers Directory.
- He was born in 1920 and died in 1993.

27 Mark for Review

Which choice most effectively uses information from the given sentences to set up a discussion of Cooper's career for an audience already familiar with the MBC project?

(A) While William Benjamin Cooper is considered a great composer, there are many more such composers included in the MBC Historic Composers Directory.

(B) The MBC project's Historic Composers Directory highlights Black classical composers of the past, such as William Benjamin Cooper (1920–1993), in order to inspire music students to become the classical composers of the future.

(C) Among the many talented figures included in the MBC project is classical music composer William Benjamin Cooper.

(D) Born in 1920, William Benjamin Cooper passed away in 1993, according to the MBC project.

The fossil remains of the individual known as LH 4, discovered in Tanzania in 1974, can help paleoanthropologists not only identify steps in the evolution of hominids but also _____ the Pliocene epoch generally, revealing important details about the time in which LH 4 lived.

1 Mark for Review

Which choice completes the text with the most logical and precise word or phrase?

(A) substitute

(B) imitate

(C) illuminate

(D) design

Before the Mariner 2 mission completed a successful flyby of Venus in 1962, astronomers' ideas about the planet were little more than _____. Venus's atmosphere is so thick that Earth-based observations had yielded very little information about the planet.

2 Mark for Review

Which choice completes the text with the most logical and precise word or phrase?

(A) conclusions

(B) summations

(C) conjectures

(D) exemplifications

The following text is adapted from Virginia Woolf's 1919 novel *Night and Day*. Katharine is the granddaughter of a celebrated poet.

> [Katharine's] descent from [a celebrated poet] was no surprise to her, but matter for satisfaction, until, as the years wore on, certain drawbacks made themselves very manifest. Perhaps it is a little depressing to inherit not lands but an example of intellectual virtue; perhaps the conclusiveness of a great ancestor is a little discouraging to those who run the risk of comparison with him.

3 Mark for Review

As used in the text, what does the word "manifest" most nearly mean?

(A) Anticipated

(B) Particular

(C) Complex

(D) Evident

The work of Tobias Gerstenberg et al. on tracking eye movements supports a theory that people engage in _____ thinking when making causal judgments: when subjects were asked to look at two colliding billiard balls and judge whether one caused or prevented the other's movement through a gate, their eyes looked at where the target ball would have gone if the ball that altered its path did not exist.

4 Mark for Review

Which choice completes the text with the most logical and precise word or phrase?

(A) counterfactual

(B) analogical

(C) ambivalent

(D) associative