

**AP® ENVIRONMENTAL SCIENCE
2011 SCORING GUIDELINES**

Question 3

- (a) Iceland's position on the graph is due in part to its access to geothermal energy sources. Describe how electricity is generated from a geothermal source.

(2 points; 1 point for indicating how steam is produced to turn a turbine and 1 point for stating that the energy from the turbine is used to run a generator that produces electrical current)

Steam production (thermal energy into mechanical energy). Any of the following are correct responses:

- High-pressure hot water is pumped out of the earth and put into a low-pressure container to produce steam, which will in turn run a turbine (flash steam plant).
- Wells are drilled, and steam is piped directly to turn a turbine (dry steam plant).
- Hot water is pumped out of the earth; a heat exchanger is used to heat another liquid to produce vapor that is then used to turn a turbine (binary cycle).

Electrical production (mechanical energy into electrical energy)

- The energy from the turbine is used to run a generator.

- (b) Despite its low GDP per capita and low annual electrical energy consumption per capita, China has become the world's largest emitter of CO₂. Explain this apparent contradiction.

(1 point)

Although the per capita electrical energy consumption is low, China is the most populous country on the planet. The sum of individual consumption is large.

- (c) In addition to contributing to increased atmospheric CO₂ concentrations, China is facing other air pollution issues related to the generation of electricity. Identify one such issue and describe the impact it has on human health.

(2 points; 1 point for identifying an issue and 1 point for explaining its impact on human health)

Students can earn 1 point for naming an air pollution issue without mentioning an impact on human health. In order to earn both points, students must correctly link the impact on human health to the air pollution issue.

Issue (1 point)	Impact on human health (1 point)
SO ₂ or SO _x emissions from coal-burning power plants	• Respiratory irritant • Aggravate asthma, bronchitis • Can lead to emphysema • Throat irritant
Particulate matter	• Decreases lung function (lung irritant) • Aggravates asthma • Throat irritant
NO _x from coal and petroleum combustion	• Respiratory irritant • Aggravates heart disease
Ozone, PAN from photochemical smog	• Lung irritant • Eye irritant

Sample Responses Q3 Ap Central College Board

Jin-Ying Zhang



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Agrindex, 1991

Sample Responses Q3 Ap Central College Board: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. Sample Responses Q3 Ap Central College Board : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Sample Responses Q3 Ap Central College Board : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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