

Answer either Question 3 or Question 4.

3. Respond to parts A, B, and C.

- A.** Identify one development that contributed to the spread of gunpowder technologies in the period before circa 1500.
 - B.** Explain one way the use of military technologies affected the development of land-based empires in the period circa 1450 to 1750.
 - C.** Explain one way navigational technologies contributed to economic change in the period circa 1450 to 1750.
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4. Respond to parts A, B, and C.

- A.** Identify one technological development in communication or transportation in the twentieth century.
- B.** Explain one way nuclear technologies affected international relations in the second half of the twentieth century.
- C.** Explain one way the spread of new technologies contributed to increased economic activity in the twentieth century.

Question 3: Short Answer No Stimulus**3 points****General Scoring Notes**

- Each point is earned independently.
- **Accuracy:** These scoring guidelines require that students demonstrate historically defensible content knowledge. Given the timed nature of the exam, responses may contain errors that do not detract from their overall quality, as long as the historical content used to advance the argument is accurate.
- **Clarity:** Exam responses should be considered first drafts and thus may contain grammatical errors. Those errors will not be counted against a student unless they obscure the successful demonstration of the content knowledge, skills, and practices described below.
- **Describe:** Provide the relevant characteristics of a specified topic. Description requires more than simply mentioning an isolated term.
- **Explain:** Provide information about how or why a historical development or process occurs or how or why a relationship exists.

A Identify one development that contributed to the spread of gunpowder technologies in the period before circa 1500. **1 point**

Examples of acceptable responses may include the following:

- The Mongol conquests contributed to the spread of gunpowder technologies.
- Warfare between states led to the spread of gunpowder technologies.
- Some states employed foreign military specialists who could train their forces in how to use new types of cannons and other gunpowder weapons.
- Gunpowder technologies spread along trade routes, such as the Silk Road and the Indian Ocean.

B Explain one way the use of military technologies affected the development of land-based empires in the period circa 1450 to 1750. **1 point**

Examples of acceptable responses may include the following:

- Muslim empires such as the Ottomans and Mughals used armed trade and gunpowder to expand their territories by conquering weaker neighboring states.
- Some European states were able to create overseas empires by using cannons and other gunpowder weapons against the technologically less developed societies they encountered.
- Many states were able to use gunpowder weapons to eliminate or reduce challenges to their authority from the nobility, for example by building or expanding their professional armies.

C	Explain one way navigational technologies contributed to economic change in the period circa 1450 to 1750.	1 point
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Examples of acceptable responses may include the following:

- Improved compass designs enabled Europeans to sail to the Americas, eventually creating the Atlantic system of trade.
 - Knowledge of seasonal monsoon winds allowed European states to establish trading-post empires in the Indian Ocean.
 - Improved astrolabes and better mapmaking techniques facilitated European exploration of the African coast, which led them to set up trading posts on the continent.
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