

2023



AP[®] Human Geography

Scoring Guidelines

Set 2

Question 1: No Stimulus**7 points**

(A) Define the concept of territoriality in terms of political geography.**1 point**

Accept one of the following:

- A1. Territoriality is the connection of people, their culture, and their economic systems to where they live (can apply to multiple scales).
- A2. Territoriality is the process by which a set of political units with fixed distinct boundaries are created, expanded, annexed, and/or defended.
- A3. Territoriality is the process by which a land area (or land and water) is established under a jurisdiction (e.g., an established or recognized system of governance, or administrative control).

(B) Describe the concept of sovereignty as it relates to the state.**1 point**

Accept one of the following:

- B1. Sovereign states have the right to control what is inside their borders without interference from outside states and entities.
 - B2. Sovereign states are recognized by the international community and other foreign entities.
 - B3. Sovereign states have the right to defend their borders against invasion by other states.
 - B4. Sovereign states have the right to close the borders to immigration.
 - B5. Sovereign states have the right to regulate international trade.
 - B6. Sovereign states have the right to establish their own government by establishing a constitution and/or system of political representation.
 - B7. Sovereign states have the right to enact laws or policies (e.g., the criminal justice code, civil legal code, land ownership system, and/or natural resource management system).
 - B8. Sovereign states have the right to establish alliances and recognize foreign states or entities, and/or establish diplomatic relations and embassies in other countries.
 - B9. Sovereign states have the right to establish policies (e.g., taxation, appropriations).
-

-
- (C) Compare ONE difference in territorial organization between the governments of unitary states and the governments of federal states. 1 point**

Accept one of the following:

- C1. Unitary states tend to have a more top–down form of governance, while federal states have more locally based power centers.
- C2. Unitary states have a single government that expresses power over the entire territory, whereas federal states divide power among regional governments that control a limited portion of territory.
- C3. Unitary states have a centralized system of administration (e.g., law enforcement, natural resource management, infrastructure development), whereas federal states have more dispersed power centers.
- C4. Unitary states tend to have a single system of territorial control, whereas federal states may have multiple types of internal territorial systems based upon each region’s culture (e.g., different land survey systems, differing legal systems, different ethnicities).

-
- (D) Recently, the United Kingdom decided to withdraw from the European Union. Explain ONE possible reason why sovereignty would play a role in the United Kingdom’s decision to withdraw from the European Union. 1 point**

Accept one of the following:

- D1. The United Kingdom (UK) left the European Union (EU) because its leaders believed the UK had surrendered too much sovereignty to the supranational government of the EU.
 - D2. The free movement of people among the EU member states had increased immigration to the UK resulting in political pressure to limit immigration to the UK, in opposition to existing EU policies.
 - D3. The leaders of the UK believed they could form more advantageous trade agreements by working independently from the EU.
 - D4. The UK participated in the EU economic policies but never joined the eurozone, maintaining its own currency, the British pound, as a symbol of British identity, and/or source of economic stability or superiority in value as compared to the euro.
 - D5. The UK is physically separated from Europe, with a long history of world trade and a strong sense of itself as a world power, and this translated into a weaker sense of being part of/belonging to the EU.
-

-
- (E) During the United Kingdom’s withdrawal from the European Union, some people in Scotland proposed independence from the United Kingdom. Explain ONE possible reason why territoriality would play a role in the devolution of a state. 1 point**

Accept one of the following:

- E1. People in one region within a state have a connection to the land of the ethnic group, culture, and/or regional identity and believe that they should have autonomy over the region or the right to secede from the state.
 - E2. People in one region within a state believe that the leaders in the government or people in other parts of the country (e.g., core or capital) do not respect the people of the region’s long history of culture and attachment to the land.
 - E3. People in one region within a state believe that the economic policies of the state favor a majority group or another group in power at the expense of their region.
 - E4. Many Scots believe that Scotland should have control of foreign policy and defense agreements.
 - E5. Many Scots believe that Scotland is both its own country and a part of Europe (or the European Union) at the same time.
 - E6. Many Scots believe that trade agreements among EU members will be better for the economy of Scotland if it rejoins the EU.
 - E7. Many political leaders desire Scottish independence so that Scotland may have an economy and/or monetary system separate from the rest of the UK.
 - E8. Some in Scotland desire an independent state (separate from England, Wales, and Northern Ireland) that still has the British monarch as the titular head of state.
-

-
- (F) Local governments often divide cities into representative electoral districts. Explain how the process of redrawing district boundary lines may affect election results within a city. 1 point**

Accept one of the following:

- F1. Redrawing district boundaries may shift the balance of political power among or favor certain political parties, candidates, and/or representative groups (intentionally or unintentionally).
- F2. If the boundaries are drawn in a manner that divides a voting group among several districts, the power of the group is diminished (cracking to decrease power).
- F3. If the boundaries are drawn such that a voting group is concentrated in one district, its political power is increased (packing to increase power) or favors a group that has a higher voter turnout (stacking to increase power).
- F4. If the boundaries are drawn in such a way that a voting group is so overwhelmingly concentrated in one district, then the group may lose the ability to influence power in any surrounding area (packing to decrease power).
- F5. Districts are often redrawn as population changes over time and new lines may create new districts that are different than before, which may mean voters recently added to these districts may be less familiar with issues and candidates in these districts.

-
- (G) Explain why neighboring local governments may face challenges in providing transportation services to residents of a rapidly growing metropolitan area. 1 point**

Accept one of the following:

- G1. Local governments that are fragmented, divided, and/or dispersed may find it difficult to agree on transportation services and/or projects.
- G2. Local governments may be completely independent of each other and may not have an official regional or metropolitan forum or interface in which to interact and/or plan for transportation needs.
- G3. Local governments may compete for transportation funding resources from state, province, national, federal, or supranational government sources and may see neighboring governments as opponents and/or competitors for resources.
- G4. Local competitiveness (e.g., local pride, rivalries, or racial, ethnic, and/or economic differences) between neighboring communities may hinder effective cooperation between local governments on transportation planning.
- G5. Disparities in wealth between neighboring local governments dealing with a high volume of commuters coming from other local governments may not have the resources needed to meet the demand for transit infrastructure and/or services.
- G6. Suburban sprawl and the establishment of separate municipalities on the edge of the metropolitan area may increase demand, pressure, and/or traffic flow through communities closer to the city center and/or along major transit corridors.

Total for question 1: 7 points

Question 2: One Stimulus**7 points**

(A) Using the data categories shown in the table, identify **ONE** indicator that is used to calculate HDI scores. **1 point**

Accept one of the following:

- A1. Life expectancy is one indicator.
- A2. GNI per capita is one indicator.
- A3. Mean (or average) years of schooling is one indicator.

(B) Using a different indicator than the one identified in part A, explain why Brazil's HDI score is higher than that of Afghanistan. **1 point**

Accept one of the following:

- B1. Brazil has a higher ranking than Afghanistan because it has a higher life expectancy (no point if paired with a point for A1).
 - B2. Brazil has a higher ranking than Afghanistan because it has a higher GNI per capita, produces higher-value goods and services per person, and/or Brazil has a more productive economy per person (no point if paired with a point for A2).
 - B3. Brazil has a higher ranking than Afghanistan because it has a greater mean (or average) number of years of schooling for adults and/or children (no point if paired with a point for A3).
-

-
- (C) The UN and many countries have promoted sustainability principles. Describe ONE specific way that sustainability goals can respond to economic challenges. 1 point**

Accept one of the following:

- C1. Programs and policies to reduce poverty (e.g., improve access to the flow of remittances, microloans, social safety nets) and/or increase jobs. (Sustainable Development Goals [SDG] 1, 8, 16)
- C2. Improvements in the quality of the environment (e.g., environmental protection measures, increasing biodiversity, reducing pollution) may improve the health of the labor force. (SDG 14, 15)
- C3. Investments in environmental technology (e.g., clean water, sanitation, and/or hygiene) and/or infrastructure (transportation, electricity). (SDG 6, 9)
- C4. By shifting from fossil fuels to solar and wind-generated electricity, a country can generate new employment in the secondary and/or tertiary sectors (e.g., construction, manufacturing, engineering). (SDG 7, 13)
- C5. Improvements in nutrition and/or agricultural production and/or reductions in food insecurity can improve the health of the workforce and/or increase economic productivity. (SDG 2)
- C6. Investing in improving health care can result in a healthier and/or more productive workforce and/or lower population growth. (SDG 3)
- C7. Investing in education can improve the overall quality of the workforce. (SDG 4, 5)
- C8. Reducing inequalities such as gender discrimination and/or other forms of discrimination (e.g., discrimination based on race, ethnicity, ability, age). (SDG 5, 10)
- C9. Reducing conflict, war, and violence frees up resources to invest in other areas of a country's economy and/or can lead to increases in the country's trading partners. (SDG 16)
- C10. Programs and policies that create partnerships among governments, and/or the private sector can often lead to more investment in industry. (SDG 17)

Responses do not need to cite the SDG number.

(D) Explain ONE reason why increasing women’s access to education is likely to affect a country’s total fertility rate. 1 point

Accept one of the following:

- D1. Women with increased access to education spend more time in school and/or have more job opportunities (e.g., higher-paying jobs), which tends to result in delayed age of marriage and/or smaller family sizes.
- D2. Women with increased access to education tend to have more information regarding health care and family planning, and/or the ability to afford family planning, resulting in smaller family sizes.
- D3. Women with higher levels of education tend to migrate to urban areas where residents may have less time, space, and/or need for children as a source of familial labor (as compared to rural areas).
- D4. Women with higher levels of education tend to have higher levels of political empowerment and may choose to have fewer children due to their position or role in society (e.g., equality with men, holding political office, business ownership), and/or nondomestic role in the household.

(E) SDG 8 is to “promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.” Explain ONE way a country’s development of ecotourism might affect economic growth. 1 point

Accept one of the following:

- E1. A country that has moved to ecotourism would see an increase in jobs or expansion in the service sector of the economy.
 - E2. Ecotourism often results in better-paying, salaried jobs.
 - E3. Ecotourism may result in an increase in tourism revenue, foreign currency, and/or tax revenues.
 - E4. Ecotourism may result in new job opportunities and/or higher-paying jobs in rural areas that lack such opportunities (e.g., communities in or adjacent to national parks or conservation areas).
 - E5. A country whose government may spend money on ecotourism infrastructure projects may negatively affect the overall economy because it diverts resources from other types of infrastructure investments (e.g., education, health care).
 - E6. Ecotourism can result in low-paying jobs and/or informal economy sector jobs that do not contribute positively to the overall economy of a country.
 - E7. Transnational corporations may invest in ecotourism in a country, while sending the profits back to their headquarters, depriving the country of that income.
-

-
- (F) Using data from the table, explain how access to clean-burning fuels for people’s homes relates to the life expectancy of a country’s population. 1 point**

Accept one of the following:

- F1. The high air pollution mortality rate shown in Afghanistan (211 per 100,000 people) is connected to the low percentage of the population’s access to clean-burning fuels (only 32%) contributing to a lower life expectancy (61).
- F2. Exposure to air pollution may cause diseases and/or health issues among people with weakened immune systems and deaths (fatalities) from these diseases, which may result in high mortality rates and/or shorter life expectancies as seen in the data for Afghanistan.
- F3. The life expectancy in Brazil (69) is slightly higher than Afghanistan (61) and/or lower than Finland (81) and may be related to the high number of the country that has access to clean burning fuels (Brazil with 96%).
- F4. The low air pollution mortality rate and/or longer life expectancy (81) shown in Finland is connected to the fact that all (100%) of the population has access to clean-burning fuels.

Responses must indicate a country or a specific statistic from the table.

-
- (G) Explain how ONE of the countries in the table would be classified according to Rostow’s stages of economic growth. 1 point**

Accept one of the following:

- G1. Afghanistan is in Stage 1 (traditional society) or 2 (transitional stage/preconditions for take-off), or lower stages, because it has one or more of the following characteristics: high percentage of labor force in agriculture, low GNI per capita, low HDI ranking, and/or its economy is mainly focused on farming and natural resource extraction.
- G2. Brazil is in Stage 3 (take-off) or 4 (drive to maturity), or middle stages, because it has one or more of the following characteristics: low agricultural employment, high income disparity, a weak social welfare system, a diversified economy that increasingly focuses on services, and/or an industrial economy that exports natural resources, processed agricultural goods, vehicles, and other manufactured products.
- G3. Finland is in Stage 4 (drive to maturity) or 5 (high mass consumption), or higher stages, because it has one or more of the following characteristics: a high GNI per capita, a high HDI ranking and/or a strong social welfare system, a postindustrial economy, and/or Finland’s economy is focused on services and technology.

Total for question 2: 7 points

Question 3: Two Stimuli**7 points**

(A) Describe ONE reason for the migration patterns shown on the map.**1 point**

Accept one of the following:

- A1. Seasonal migration (transhumance) to move herds to grazing lands and/or water sources.
- A2. Migration to areas with more rainfall during the dry season.
- A3. Migration because the region's climate (arid or semi-arid) is too dry to support grazing year-round and/or to reduce stress on land that has been grazed.
- A4. Movement southward during the dry season and/or northward during the wet season.
- A5. Migration patterns based on cultural or agricultural practices.

(B) Describe ONE cause of desertification in the Sahel region.**1 point**

Accept one of the following:

- B1. Overgrazing has removed the grass cover and/or damaged the soil.
- B2. Human population growth and the use of arid land for growing food and/or demand for water have placed the land under added stress.
- B3. Runoff, wind, and/or erosion has removed fertile topsoil.
- B4. Soil erosion caused by climate change, natural drought, increasingly dry climate and/or human activities.
- B5. The use of wood for fuel and building materials has removed natural scrub or shrub landscapes.

(C) Explain how pastoral nomadism may affect the cultural landscape of the Sahel region.**1 point**

Accept one of the following:

- C1. Pastoral nomadism affects land use patterns in the region, with much land used for grazing, leaving an imprint of agricultural patterns (e.g., migration routes, traditional sites for seasonal settlements, watering sites, market locations, corrals, animal pens) on the cultural landscape.
 - C2. Pastoral nomadism contributes to specific cultural identities and/or shared practices in groups with migrant lifestyles, leaving an imprint on the landscape (e.g., types of temporary settlements, meeting places, market locations) and/or infrastructure that supports communication (e.g., signs, cell phone towers).
 - C3. Pastoral nomadism affects the built environment, with many nomadic herders constructing portable and/or seasonal (temporary) dwellings.
 - C4. Pastoral nomads follow long-established seasonal migration routes or seasonal temporary settlements, thus maintaining local traditions and/or agricultural practices (e.g., animal husbandry, dairying, celebrations) that leave an imprint on the cultural landscape.
-

(D) Explain ONE way mixed-crop farming could be affected by climatic conditions. 1 point

Accept one of the following:

- D1. The availability of annual or seasonal rainfall (e.g., drought) results in crop or animal losses.
- D2. Variables and/or extremes in annual and/or seasonal temperatures may prevent or enable the cultivation of certain plant crops or animals.
- D3. Farming is affected by floods in areas where there are seasonal monsoons, hurricanes, and/or intense storms.
- D4. Farming is affected by changes in temperature or rainfall which may cause farmers to substitute one crop for another, and/or change farming techniques.
- D5. Changes in temperature, precipitation, frequency, and/or the intensity of storms may limit plant crops or impact the overall health of animals.

(E) Using the map and table, explain why expanding protected natural areas may affect the migration routes of nomadic herders in the Sahel region. 1 point

Accept one of the following:

- E1. Nomadic herders may have to make detours to avoid crossing protected natural areas, or use corridors established by governments, thus altering their traditional migration routes.
 - E2. Newly expanded protected natural areas may disrupt established migration routes traditionally used by nomadic herders.
 - E3. Protected natural areas may bring nomadic herders into conflict with conservation organizations or forestry services as they may differ on the use of protected areas for grazing, and/or concern about the impact of herding on natural habitats.
 - E4. Nomadic herders who travel through or graze animals in protected areas may risk legal consequences (e.g., fines) and begin to avoid those routes.
 - E5. Protected areas may preserve grassland habitat and/or prevent the loss of potential grazing lands, allowing nomadic herders to continue their traditional migration routes.
 - E6. Protected areas may conserve traditional migration routes for herders under agreements with governments or conservation organizations.
 - E7. Nomadic herders who cross international borders may encounter tensions with government officials who enforce migration policies and/or inspect for contraband items.
-

(F) **Using the information in the table, explain why farmers' increased use of irrigation may increase conflicts with nomadic herders.** **1 point**

Accept one of the following:

- F1. Increased use of irrigation may increase the amount of land that can be cultivated for crops, cutting off migration routes and/or limiting the use of such lands for transporting or grazing herds during seasonal migrations.
 - F2. Increased use of irrigation may increase the amount of land that can be cultivated for crops and eliminate areas where nomadic herders could set up temporary settlements and/or corrals or pens.
 - F3. Increased use of irrigation may deplete water supplies used by nomadic herders and/or cause competition between herders and farmers to water livestock and/or crops during pasturing or seasonal migrations.
 - F4. Overuse of irrigation in dryland (arid) environments may lead to soil salinization that could reduce the amount of food for animals (forage) or land for grazing that is available for migrating herds.
 - F5. Irrigation may lead to runoff carrying chemical fertilizer or pesticides into bodies of water where herders drink and/or water their livestock, increasing tensions between nomadic herders and farmers.
-

(G) Explain the degree to which increased access to communication technologies may create cultural convergence among nomadic herders. 1 point

Statement of a moderate to high degree

AND

Accept one of the following:

- G1. Increased use of mobile phones, television, and/or the internet may expose herders to cultural influences from outside of their community and make herder culture less unique and/or expose nomadic herders to the cultural or social norms of external communities.
- G2. Increased use of global communication systems may cause herders to use more widely spoken languages and make indigenous language use less common.
- G3. Increased consumption of external music, literature, art, and/or holidays may diminish the cultural interest of herders to practice or maintain indigenous traditions within herder communities.

OR

Statement of a moderate to low degree

AND

Accept one of the following:

- G4. Increased exposure to outside cultural influences (e.g., music, languages, information) may mobilize nomadic herders to unite to protect their culture, resulting in a stronger cultural identity among nomadic herders.
- G5. Limited access to communication technologies due to cost or connectivity may hinder cultural convergence.
- G6. Nomadic herder communities may reject increased access to communication technologies to resist the forces of globalization and/or maintain traditional lifestyles.

Total for question 3: 7 points