AP[®] HUMAN GEOGRAPHY 2011 SCORING GUIDELINES

Question 1

The map and table above show the geographic location, population growth, and projected growth of Mexico's most populous cities.

Part A (3 points)

Define the following terms and describe how each relates to Mexico's urban geography.

Primate city (1 point)

Magnitude (it is more than two times the size of the next-largest city) AND significance (it exerts social, political, economic dominance).

Rank-size rule (1 point)

*N*th largest city is 1/*n* smaller than the largest city; more small cities, fewer larger cities.

Note: Do not grant credit if student misrepresents the proportion by saying ½ for all relationships.

Describe how each relates to Mexican urban geography (1 point)

Mexico does not comply with the rank-size rule (there is a poorly developed urban hierarchy because Mexico City is a primate city).

OR

Mexico City is an example of a primate city because it is disproportionately larger than other Mexican cities and dominates the country.

Note: Either argument will earn the point, but students cannot contradict themselves.

Part B (4 points)

Explain TWO positive effects of primate cities on a country's economic development ...

Positive effects (1 point each; total of 2 points)

- Advantages of agglomeration of economic activity.
- Large market for goods and services.
- Ability to offer high-end goods and services (including education) because of larger threshold population.
- Advantages of enhanced flow of information and ideas in large population.
- Advantages of centralized transportation and communication network.
- Global trade opportunities; primate cities can compete on a global scale and attract foreign investment.

Note: The response must focus on and explain the positive impact on <u>economic development</u>; for example, tourism in primate cities must be linked to economic benefits to the nation's economy.

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Question 1 (continued)

... and TWO <u>different</u> negative effects of primate cities on a country's economic development.

Negative effects (1 point each; total of 2 points)

- Unequal distribution of investments deters national economic development.
- Unequal economic and/or resource development.
- Unequal distribution of wealth and/or power.
- Transportation network (hub and spoke) prevents equal accessibility to all regions.
- Impact of centrifugal forces and difficulties of political cohesion on economic development.
- Brain drain migration and unequal distribution of education, entrepreneurship, opportunities.
- Disproportionate effect of disaster in the primate city on entire country.
- Negative externalities, e.g., unsustainable urban growth/slums/environmental impacts **if** these are related to economic development, e.g., burden on national economy to cope with problems.

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A.	A primate City is a city that is a center of economic business
,	and trade, it is an exception to the Runk-5:20 rule. The Runk-5:20 rule
	States that the relation to the MAST populous city and 2nd Most populous
	is 1/1th in being the rank of the city in terms of population. An example
	would be if a country's largest city had a population of 2 millions the second
	largest would be 500,000, 3 third largest approximately 333,333 and So on.
	Mexico City uppears to be both a primule city, the capital and Most
	populous. Since mexico City is the primute city, its population is well
	above the other cities so the Runh-Size rule does not effectively
	apply.
B,	A positive effect of primute cities is that it coeales one large
	Certer of Reonamic brites in a country and with that a larger percentage
	of the population. This allows more employees to have jubis and
	increase mome and the Country's economy. Another herefit of primate cities
	is that they allow the population to be in different economic centers. This
	means that not everyone will only have one large centralized area of
	business and retailer services. It allows the population cencentation to
	Spread out over more cities rather than just the Capital.
	A negative chfect of primate cities is they develop more

rapidly Hhan Ghis inequality between other Causing inlome regions in inequality Conflict Ú Lountry. Income Country Slows in He and Courses Nolihzal development because it will Cure Conflict which lown econom? ĩ٨ the hine p take On. Another government Might action ACTUDAL Negative takes the e ffect the ił nution's Capital attertion 13 anny from to the bisiness attracted If Napleral pride. Apople Only Mis lowering ire

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AP[®] HUMAN GEOGRAPHY 2011 SCORING COMMENTARY

Question 1

Overview

This question was intended to determine students' understanding of the model of urban hierarchy and its application to an actual system of cities. Rank-size rule and primacy are fundamental to the cities and urban lands use section of the course. The question asked students to provide definitions for rank-size rule and primate city and to determine which one best described Mexico's system of cities. They were then asked to provide a discussion of both the positive and the negative impacts of primate cities on a nation's economy.

Sample: 1A Score: 7

The essay demonstrates a comprehensive understanding of primate cities, rank-size rule, and the effects that primate cities have on a country's economic development. It earned full credit in part A (3 points) and part B (4 points). In part A the response received 1 point for correctly stating that primate cities are more than twice the size of the next-largest city and for noting (at the beginning of part B) that they "are booming economic centers." The response was awarded another point for its definition of the rank-size rule: "the n-th most populous city in a rank-sized economy/urban distribution will be 1/nth of the most populous city in terms of population." One more point was earned for stating that Mexico "doesn't have a rank urban distribution." In part B the essay received 1 point for describing a positive effect of a primate city on economic development — that "Mexico City provides Mexico with a way into the global economy," which can attract international companies. It gained an additional point (at the end of the response) for explaining that "a large number of services ... leads to the positive effects of agglomeration" and "a wide pool of consumers." The essay merited 2 more points for correctly identifying two negative effects: that "[p]rimate citys [*sic*] ... make it difficult for other cities to develop" and that a primate city's squatter settlements "drain resources from the government because it must address the social consequences/environmental consequences of such slums."

Sample: 1B Score: 5

The essay received full credit in part A (3 points) and partial credit in part B (2 points). In part A the response earned 1 point for correctly identifying a primate city as "a center of economic business and trade" and for stating that "its population is well above the other cities." It received an additional point for defining the rank-size rule thus: "the relation to the most populous city and 2nd most populous is 1/nth, 'n' being the rank of the city in terms of population." The response gained another point for categorizing Mexico City as a primate city. In part B the essay received 1 point for observing that one positive effect of a primate city is to create "one large center of economic business in a country." No additional point was granted, as the response focuses more on the definition rather than on the positive effects of a primate city. The essay was awarded 1 point for explaining a negative effect of primate cities: "they develop more rapidly than other cities causing income inequality between regions in a country." No additional point was earned for naming a negative effect, because the response incorrectly focuses on issues such as loss of national pride.

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Question 1 (continued)

Sample: 1C Score: 3

The essay received partial credit in part A (2 points) and partial credit in part B (1 point). In part A the definition provided for a primate city did not receive credit, as it discusses only the size and not the magnitude, significance, or dominance of the city within the country. The response earned 1 point for defining the rank-size rule by indicating that the lesser cities must be many times smaller than the largest city ("Meaning that the second largest city should be $\frac{1}{2}$ that of the largest city, and the third largest city should be $\frac{1}{2}$ of the largest cities [*sic*] population and so on"). The response was awarded another point for understanding that Mexico "does not follow the Rank-Size Rule." In part B the essay gained 1 point for noting, as a positive effect on a country's economic development, that "primate cities are mainly where foreigners want to trade or Invest [*sic*] in." No additional point was received for a positive effect, as the response incorrectly states that primate cities have "a high labor force, which means more manufacturing." No points were awarded for the explanations of negative effects, because the response incorrectly focuses on issues such as "cultural conflicts" that result from increased population.