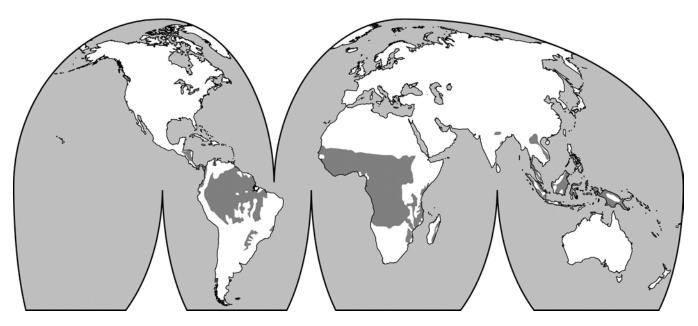
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Question 2



The map above shows areas of shifting cultivation, a form of subsistence agriculture.

Part A (1 point)

Define subsistence agriculture.

Any of the following is a correct response:

- Food grown for the farmer or farmer's family/kin
- Food grown for *local consumption* for village/community market
- Food <u>NOT</u> grown for commercial purposes/sold for revenue

Note: Students cannot earn this point by explaining the market alone.

Part B (1 point)

Describe the practice of shifting cultivation.

Students must describe <u>all three</u> of the following processes to earn this point:

Clearing (e.g., slash-and-burn swidden, milpa, patch, chitemene, ladang) **Farming** (until land is no longer fertile because of nutrient depletion)

Moving (shifting) to another plot of land *Note:* Referencing "crop rotation" is incorrect.

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Question 2 (continued)

Part C (1 point)

Explain one reason why shifting cultivation was sustainable in the past.

Either of the following is a correct response:

- Must link *lower/smaller/less* population AND *more* available land/cultural adaptation/environmental adaptation. *Note:* References to global land are incorrect.
- Lower *physiologic/nutritional/agricultural* density. *Note:* References to lower population density are incorrect.

Part D (4 points)

Explain two reasons why shifting cultivation is expected to diminish during the twenty-first century.

Reasons (2 points)	Explanation (2 points)
Technological advancements (e.g., fertilizers, hybrid seeds, pesticides)	• Leads to increased yields/food quantity
	• Leads to sedentary farming
	NOT just "Green Revolution"
Expanding/growing population (NOT just "world population")	• Less available land
	Higher physiologic/nutritional/agricultural density
	Reduced soil fertility owing to shortened fallow period
Commercial agriculture	Profitable
	• Efficient
	Plantation/agribusiness/cash cropping/ranching
Competing land-use activities (e.g., logging, corporate investment, other employment opportunities)	• Students must state that these occur at the expense of shifting cultivation (e.g., that they lead to environmental degradation)
Government/environmental policy	Controls on deforestation
	• Restrictions on land rights or usage
	• Limiting carbon dioxide emissions

Note: Two reasons and two explanations must come from two different boxes but need NOT be connected <u>only</u> in the manner shown above.

2A lof 1

Write in the box the number of the question you are answering on this page as it is designated in the exam.

A)Subsistence agriculture is a type of agriculture used only to sustain the person; family, or village engaged in it and is not for the use of selling the crops to make a profit. B)Shifting cultivation is when all the regetation in an area is removed and burned. The burning of the vegetation provides a fertilizer for the land. Crops are then planted on this area for a couple of years, and then they are left fallow for about 10-20 years until its used again. This gives time for the vegetation to come back. Shifting cultivation was Sustainable in the past because there weren't as many people, so there was plenty of land that was available for the practice. DShifting Cyllivation is compt expected to diminish now because many new agricultural techniques and inventions such as genetically enhanced seeds, plows, tractors, irrigation systems, and many other things have made other types of agriculture more efficient velso due to the growing population of the world their isn't as much farmland, and shifting cultivation is not a practical use of land. There's also many places especially forests that are being protected from cutting down vegetation,

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Write in the box the number of the question you are answering on this page as it is designated in the exam.

2B 10f2

A) Subsistence agriculture is a method of agriculture in which the products and food produced are consumed by the Farmers and their families, feeding themselves

Shifting cultivotion is the process of using one area of onto another cirea as term land and moving land O and 13 no longer as tam once the tirst 40 benefit to the formers, As tarmers more trom one area of land 10 The dispose, clean Usually tumland another they ald back later once the land way and come -In Some recovered, Slash and has bum agrizulture ß one shifting cultivation; as example ot a certaín area then burned, tarmers land is will mere USed and ot other areas. onto

the past, shifting cultivation was sustainable envailable. because Targer amount ot tamland There was a farm in these vast amounts $\mathcal{O} \mathcal{F}$ tamers Could land without consequences. There was also a feurer 5le to feed in general, so amount of this people appropriate. The once clear form land is now tarmer was

2B 20f2

Write in the box the number of the question you are answering)___ on this page as it is designated in the exam. and it is harder to feed a larger amount o of torm land. a limited amount WITH shitting cultivation is expected to diminis. simply no longer sustainable upproprie Or practice shifting population that To ONP Areas Cultivation mcreased dramatically the hás 70 point the food where shifting harvested Luttivation trom the enough 50 POPU longe teed Second reason for the predicted decline shi is the overall less unoccupied, Tarma cultivation phabited therefore, land & now Once uninhabited land. cannot be carried cultivotion those out in 5hi tipa areas heavily shifting cultivation 13 dependant ot land gmounts

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20 10f2 Write in the box the number of the question you are answering 2 on this page as it is designated in the exam. Itural agnici (5) D an (Λ stain Ot AA ά ama N îA II \mathbb{D} V ١v DOID 90 100ł 0 d A 70 \cap 10 3() 1 -0Dal 0 \cap \cap 0 0 4 100 1 1)(んく (0) (∞)

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AP[®] HUMAN GEOGRAPHY 2012 SCORING COMMENTARY

Question 2

Overview

The first half of this question was designed to allow students to demonstrate their knowledge of subsistence agriculture, using the practice of shifting cultivation as an example. In the second half of the question, students were expected to show an understanding of the concept of sustainability within the context of shifting cultivation. The question asked students to define subsistence agriculture and to describe the processes involved in shifting cultivation in parts A and B. In part C students were asked to provide an explanation of how shifting cultivation was sustainable in earlier times. In part D they were asked to explain two reasons why shifting cultivation is expected to decline in the future.

Sample: 2A Score: 7

This response earned full credit and demonstrates a comprehensive understanding of subsistence agriculture and the sustainability of shifting cultivation in the past and for the future. It received 1 point in part A for correctly defining subsistence agriculture as sustaining "the person, family, or village engaged in it and is not for the use of selling the crops to make a profit." The response received 1 point in part B by describing how shifting agriculture occurs when "vegetation in an area is removed and burned[,] ... [c]rops are then planted," and then the land area is "left fallow for about 10–20 years until it's used again." The response received 1 point in part C for explaining that "[s]hifting cultivation was sustainable in the past because there weren't as many people, so there was plenty of land that was available for the practice." Four points were earned in part D for a complete explanation of why shifting cultivation is expected to diminish in the twenty-first century: 2 points for explaining that the availability of "many new agricultural techniques and inventions ... have made other types of agriculture more efficient"; 1 point for explaining that there is not as much farmland available today; and 1 point for explaining that "many places especially forests ... are being protected from cutting down vegetation."

Sample: 2B Score: 5

This response earned full credit (1 point) in part A, full credit (1 point) in part B, full credit (1 point) in part C, and partial credit (2 points) in part D. It received 1 point in part A for correctly defining subsistence agriculture as "a method of agriculture in which the products and food produced are consumed by the farmers and their families, feeding themselves." The response earned 1 point in part B by describing shifting cultivation as "the process of using one area of land as farmland and moving onto another area of land to farm." Slash-and-burn agriculture is then offered as an example of shifting cultivation. The response received 1 point in part C for explaining that shifting cultivation was sustainable in the past "because there was a larger amount of farmland available" and there were fewer people. Two points were earned in part D for an explanation of why shifting cultivation is expected to diminish in the twenty-first century: 1 point for citing the expanding/growing population in areas that practice shifting cultivation and 1 point for explaining that, overall, there is "less unoccupied, farmable land." No additional reason or explanation points were awarded in this part.

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Question 2 (continued)

Sample: 2C Score: 3

This response earned full credit (1 point) in part A, full credit (1 point) in part B, no credit in part C, and partial credit (1 point) in part D. It received 1 point in part A for correctly defining subsistence agriculture as "the production of agricultural goods to sustain one's self and family or local community." The response earned 1 point in part B by describing shifting cultivation as "a method of agricultural production after a land has been cleared[,] ... called swidden." When "the nutrients deplenish [*sic*], ... farmers move on to new areas of cultivation." No point was awarded in part C, as the discussion is mainly about subsistence agriculture. The response earned 1 point in part D for explaining that shifting cultivation is expected to diminish in the twenty-first century because "[o]lder and more traditional methods of agriculture are being exchanged for mechanization." No additional reason or explanation points were awarded in this part, as the student merely continues the discussion of technology's impact.