

2014 Academic WorldQuest  
Question / Answer Document  
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**ROUND 1- GLOBAL ECONOMIC REALIGNMENT**

1. Where do we see a majority of the top-performing countries in the Global Competitiveness Index for 2012-2013?
- A. South America
  - B. North America
  - C. Asia
  - D. \*Europe**

Source: [http://www3.weforum.org/docs/WEF\\_GlobalCompetitivenessReport\\_2012-13.pdf](http://www3.weforum.org/docs/WEF_GlobalCompetitivenessReport_2012-13.pdf) - page 11, under “Top Ten” section

2. What critical event has led to difficulties in sustaining the economic gains of development which were made during the 1990s and early 2000s?
- A. The passing of NAFTA (North Atlantic Free Trade Agreement)
  - B. The spread of SARS (Severe Acute Respiratory Syndrome)
  - C. The spread of Melamine by China
  - D. \*The 2008-2009 global economic crisis**

Source:

<https://openknowledge.worldbank.org/bitstream/handle/10986/13120/763830v10PUB0E0301300PUBDATE0402013.pdf?sequence=4> – page 3, second paragraph

3. The MGI Report titled “Trading myths: Addressing misconceptions about trade, jobs, and competitiveness” makes what recommendation to increase growth in emerging markets?
- A. \*Supporting continued investment in education, infrastructure, and innovation**
  - B. Increase protectionism in developing economies
  - C. Support continued investment in agriculture and manufacturing
  - D. Increase protectionism in advanced economies

Source: [http://www.mckinsey.com/insights/economic\\_studies/six\\_myths\\_about\\_trade](http://www.mckinsey.com/insights/economic_studies/six_myths_about_trade) - bottom of the page

4. The United States is hoping to cooperate with Europe and what country in order to help establish more stability in the Asia-Pacific?
- A. South Africa
  - B. Russia
  - C. \*India**
  - D. United Arab Emirates

Source: [http://www.gmfus.org/wpcontent/blogs.dir/1/files\\_mf/1373399230Mukherjee\\_ODonnell\\_ChallengesMultipolarWorld\\_Jul13.pdf](http://www.gmfus.org/wpcontent/blogs.dir/1/files_mf/1373399230Mukherjee_ODonnell_ChallengesMultipolarWorld_Jul13.pdf) - “Challenges of a Multipolar World : The United States, India, and the European Union in the Asia-Pacific” – see the summary in the top left corner

5. Today, the European Union trades more with East Asia than with which country?
- A. Canada
  - B. Russia

**C.\*United States**

D. India

Source: [http://www.gmfus.org/wp-content/blogs.dir/1/files\\_mf/1373399230Mukherjee\\_ODonnell\\_ChallengesMultipolarWorld\\_Jul13.pdf](http://www.gmfus.org/wp-content/blogs.dir/1/files_mf/1373399230Mukherjee_ODonnell_ChallengesMultipolarWorld_Jul13.pdf) - “Challenges of a Multipolar World : The United States, India, and the European Union in the Asia-Pacific”, p.2, second paragraph

6. Which countries make up the BRIC economies?

A. Bolivia, Romania, Iran, and Cyprus

**B. \*Brazil, Russia, India, and China**

C. Botswana, Rwanda, Indonesia, and Cambodia

D. Bangladesh, Russia, Italy, and Chile

Source: <http://www.theatlantic.com/international/archive/2012/02/ beating-history-why-todays-rising-powers-cant-copy-the-west/253144/> - second paragraph

7. The article “Beating History: Why Today's Rising Powers Can't Copy the West” highlights which of the following events?

A. The Korean War

B. The Great Depression

**C. \*The Industrial Revolution**

D. World War II

Source: <http://www.theatlantic.com/international/archive/2012/02/ beating-history-why-todays-rising-powers-cant-copy-the-west/253144/> - The whole article discusses the Industrial Revolution, it's in the tag line at the top of the article as well.

8. What has helped lead to the boom in Africa's economic growth?

**A. \*A spike in commodity prices**

B. A drop in manufacturing

C. A spike in nuclear energy production

D. A drop in electronic development

Source: <http://www.theatlantic.com/international/archive/2012/02/ africas-amazing-rise-and-what-it-can-teach-the-world/253587/> - article “Africa's Amazing Rise and What it Can Teach the World,” 8<sup>th</sup> paragraph down

9. What technological advancement improved the ability of Africans to conduct more productive business?

A. Expanded railways

B. Credit cards

**C.\*The expanded use of mobile phones**

D. Internet cafes

Source: <http://www.theatlantic.com/international/archive/2012/02/ africas-amazing-rise-and-what-it-can-teach-the-world/253587/> - article “Africa's Amazing Rise and What it Can Teach the World, ninth paragraph down

10. In the article titled “The Two Indias: Astounding Poverty in the Backyard of Amazing Growth,” the author claims that India is theoretically a democracy, however in practice, its government more closely resembles which of the following systems?

A. Authoritarian

B. Socialist

C. Communist

**D.\*Feudal**

Source: <http://www.theatlantic.com/international/archive/2012/02/the-two-indias-astounding-poverty-in-the-backyard-of-amazing-growth/253340/> - Fifth paragraph down

## ROUND 2- U.S. ENERGY POLICY

1. What is one of the drawbacks to creating the facilities that house renewable energy?

A. The materials needed are only available in a limited number of countries

B. Manufacturers have to use cheaper materials that are not as durable

C. Manufacturers have to use some form of nuclear power, which carries additional risk

**D. \*The sources of this energy are not always available, for example, cloudy days reduce access to solar power**

Source: [http://www.eia.gov/energyexplained/index.cfm?page=renewable\\_home](http://www.eia.gov/energyexplained/index.cfm?page=renewable_home) – Under the section titled “Why don’t we use more renewable energy?” – first paragraph, last sentence

2. Based on the PBS Frontline video titled “Nuclear Aftershocks,” how far away is the Indian Point nuclear plant from Times Square in New York City?

A. 1 mile

**B. \*35 miles**

C. 100 miles

D. 1,000 miles

Source: PBS Frontline video – “Nuclear Aftershocks” <http://www.pbs.org/wgbh/pages/frontline/nuclear-aftershocks/>

3. According to the article titled “Energy 20/20,” what is the purpose of the Strategic Petroleum Reserve?

A. To encourage conservation of petroleum resources

B. To have a reserve of petroleum resources to profit from when prices skyrocket

C. To decrease reliance on foreign oil

**D. \*To provide the nation with an emergency stockpile of oil in the event of a disruption or emergency**

Source: [http://www.energy.senate.gov/public/index.cfm/files/serve?File\\_id=099962a5-b523-4551-b979-c5bac6d45698](http://www.energy.senate.gov/public/index.cfm/files/serve?File_id=099962a5-b523-4551-b979-c5bac6d45698) – article “Energy 20/20” p.21, top of the page

4. What type of energy production reached 5 trillion cubic feet in 2011, five times its 1990 level, thus reigniting hopes for homegrown energy in the U.S.?

**A. \*Shale gas**

B. Ethanol

C. Wind

D. Coal

Source: [http://www.foreignpolicy.com/articles/2012/01/03/energy\\_independence\\_a\\_short\\_history](http://www.foreignpolicy.com/articles/2012/01/03/energy_independence_a_short_history)

5. Most hydropower is produced at large facilities built by the federal government. What is the largest single hydroelectric power facility in the United States?

A. The Hoover Dam on the Colorado River in Nevada

B. Hungry Horse Dam on the South Fork of the Flathead River in Montana

**C. \*Grand Coulee Dam on the Columbia River in Washington State**

D. Raccoon Mountain Dam on the Tennessee River in Tennessee

[http://www.eia.gov/energyexplained/index.cfm?page=renewable\\_home#tab2](http://www.eia.gov/energyexplained/index.cfm?page=renewable_home#tab2) – See section titled “Hydropower”

6. Which country did PBS Frontline focus on as a major protestor of nuclear power after the Fukushima incident?

- A. Brazil
- B. Russia
- C.\*Germany**
- D. Singapore

Source: PBS Frontline video –“Nuclear Aftershocks” <http://www.pbs.org/wgbh/pages/frontline/nuclear-aftershocks/>

7. What is the name for the directional drilling and hydraulic fracturing technologies that are dramatically increasing oil and natural gas reserves?

- A. Multilateral Drilling
- B.\*Fracking**
- C. Complex Path Drilling
- D. Extended Reach Exploration

Source: [http://www.energy.senate.gov/public/index.cfm/files/serve?File\\_id=099962a5-b523-4551-b979-c5bac6d45698](http://www.energy.senate.gov/public/index.cfm/files/serve?File_id=099962a5-b523-4551-b979-c5bac6d45698) – “Energy 20/20” - page 6, third paragraph

8. In order to achieve energy independence from OPEC by 2020, the Department of the Interior recommends which of these actions?

- A.\*Expand offshore drilling and develop the “Keystone XL” pipeline**
- B. Increase domestic prices on gas to purchase untapped land in Russia
- C. Discourage offshore drilling and push to block the development of the “Keystone XL” pipeline
- D. Create more roadblocks in acquiring federal permits for drilling

Source: [http://www.energy.senate.gov/public/index.cfm/files/serve?File\\_id=099962a5-b523-4551-b979-c5bac6d45698](http://www.energy.senate.gov/public/index.cfm/files/serve?File_id=099962a5-b523-4551-b979-c5bac6d45698) – “Energy 20/20” p.12, below the image

9. Based on the 2012 graph in Adam Sieminski’s Senate testimonial, where is the largest transportation of motor gasoline seen within the United States?

- A.\*Gulf Coast to East Coast**
- B. East Coast to Midwest
- C. Rocky Mountain to West Coast, Hawaii, Alaska
- D. Rocky Mountain to Midwest

Source: [http://www.energy.senate.gov/public/index.cfm/files/serve?File\\_id=bb2fa999-fe76-4c27-9853-fc21b7b3601e](http://www.energy.senate.gov/public/index.cfm/files/serve?File_id=bb2fa999-fe76-4c27-9853-fc21b7b3601e) – Adam Sieminski’s testimony – p.8 graph titled “Figure 1:2012 Total Motor Gasoline Flows Between PADDs”

10. What is the fastest growing alternative fuel source in the U.S. and can be made from vegetable oils?

- A.\* Biodiesel**
- B. Ethanol
- C. Geothermal
- D. Petroleum

Source: [http://www.eia.gov/energyexplained/index.cfm?page=biofuel\\_home](http://www.eia.gov/energyexplained/index.cfm?page=biofuel_home) , under Biofuels tab

### ROUND 3- GLOBAL HEALTH

1. When the World Health Organization was created, which of the following was **NOT** considered a top priority?

- A. Tuberculosis
- B. \*Polio**
- C. Environmental sanitation
- D. Malaria

Source: <http://www.un.org/en/globalissues/health/> - First paragraph

2. Thanks in large part to the World Health Organization's efforts between 1967 and 1979, what disease was eradicated?

- A. Polio
- B. H1N1
- C. Malaria
- D.\*Small Pox**

Source: <http://www.un.org/en/globalissues/health/> - second paragraph

3. Non-communicable diseases are projected to be responsible for how many total deaths during the year 2030?

- A. 10 million
- B.\*52 million**
- C. 500,000
- D. 812 million

Source: [http://www.un.org/ga/search/view\\_doc.asp?symbol=A/66/83&referer=/english/&Lang=E](http://www.un.org/ga/search/view_doc.asp?symbol=A/66/83&referer=/english/&Lang=E) – page four, bottom of page under “A rising Epidemic”

4. What condition increases the risk of cardiovascular diseases and diabetes amongst children in low-income populations?

- A. \*Low birth weight**
- B. Polio
- C. Autism
- D. ADHD

Source: [http://www.un.org/ga/search/view\\_doc.asp?symbol=A/66/83&referer=/english/&Lang=E](http://www.un.org/ga/search/view_doc.asp?symbol=A/66/83&referer=/english/&Lang=E) – page 8, #20

5. What was the leading cause of death in low-income countries in 2008?

- A. Malaria
- B. Ischemic Heart Disease
- C. \*Lower Respiratory Infection**
- D. Tuberculosis

Source: <http://kaiserfamilyfoundation.files.wordpress.com/2013/02/8408.pdf> page 3, table

6. Hepatitis B & C are responsible for 80% of cancer affecting which part of the body?

- A. Skin
- B. Breast
- C. Lung
- D. \*Liver**

Source: <http://www.globalhealth.gov/global-health-topics/communicable-diseases/hepatitis/index.html>

7. What is the term for a global infection?
- A. Epidemic
  - B. Pathogen
  - C. Breakout
  - D. \*Pandemic**

Source: <http://ed.ted.com/lessons/how-pandemics-spread>

8. The Black Death plague in Europe was thought to have originated in which country?
- A. India
  - B. Britain
  - C. \*China**
  - D. Egypt

Source: <http://ed.ted.com/lessons/how-pandemics-spread>

9. What is the deadliest pandemic infection?
- A. \*Influenza**
  - B. Measles
  - C. HIV
  - D. Malaria

Source: <http://www.globalhealth.gov/global-health-topics/communicable-diseases/influenza/index.html>

10. Polio tends to infect which of the following demographics?
- A. Men over 50
  - B. Children under 5**
  - C. Pregnant women
  - D. Men and women between the ages of 18 and 25

Source: <http://www.globalhealth.gov/global-health-topics/communicable-diseases/index.html>

#### **ROUND 4- CYBERSECURITY**

1. The Department of Homeland Security has increased our cybersecurity workforce by what percent over the past two years?
- A. 50%
  - B. 100%
  - C. 250%
  - D. \*500%**

<http://www.dhs.gov/cybersecurity-results> - Last sentence of the first paragraph

2. Which government agency monitors the “.gov” network traffic?
- A. Federal Emergency Management Agency
  - B. \*Department of Homeland Security**
  - C. US Immigration and Customs Enforcement
  - D. Bureau of Alcohol, Tobacco, Firearms

Secure Cyber Networks article - This is listed under the section titled “Ensuring Security and Resilience in the Cyber Ecosystem,” first sentence. <http://www.dhs.gov/secure-cyber-networks>

3. What service does the Immigration and Customs Enforcement provide in enhancing American cybersecurity?

- A. **\*Identifies sources for fraudulent identity and immigration documents on the Internet**
- B. Underground smuggling of French cheese
- C. Plants viruses within terrorist networks
- D. Roots out people who create fake Facebook profiles

<http://www.dhs.gov/combat-cyber-crime> - second paragraph

4. According to the article titled “The Economic Impact of Cybercrime and Cyber Espionage,” what is “pilferage?”

- A. Artificial deflation of prices
- B. Artificial inflation of prices
- C. **\*Inventory shrinkage**
- D. A condition a business enters right before bankruptcy

Found on page 4, 3<sup>rd</sup> paragraph down

[http://csis.org/files/publication/60396rpt\\_cybercrime-cost\\_0713\\_ph4\\_0.pdf](http://csis.org/files/publication/60396rpt_cybercrime-cost_0713_ph4_0.pdf)

5. For years the United States government has claimed that cyber-attacks are mainly state-sponsored, initiated predominantly by all of the following, except for which country?

- A. China
- B. Iran
- C. **\*Cuba**
- D. Russia

Found in the fourth paragraph down, second sentence in the article “Cybersecurity and Internet Governance” which was issued by the Council on Foreign Relations

6. In the New York Times article titled “How a Secret Cyberwar Program Worked,” how was the cyber attack dispersed throughout the Iranian nuclear enrichment facility in Natanz?

- A. A virus was sent via email to a low-level employee
- B. **\*A “worm” program was created to cause the machinery within the plant to malfunction**
- C. A simple program that recorded keystrokes called “Syntax” was installed via a member of the Israeli military
- D. The security guards were distracted by a soccer game

Source - <http://www.nytimes.com/interactive/2012/06/01/world/middleeast/how-a-secret-cyberwar-program-worked.html?ref=computersecurity> - The process can be seen on the diagram in the NY Times Article titled “How a Secret Cyberwar Program Worked.”

7. In April 2009, what \$300 billion Pentagon project was infiltrated by computer spies?

- A. **\*Joint Strike Fighter**
- B. Stuxnet
- C. U.S. Cyber Command
- D. Mayor Engen’s Twitter account

Source: <http://www.cfr.org/technology-and-foreign-policy/confronting-cyber-threat/p15577#p3> – “Confronting the Cyber Threat” article

Under the cyberespionage section, third paragraph down.

8. According to the New York Times article titled “Obama Order Sped Up Wave of Cyberattacks Against Iran,” what object proved to be critical in spreading the first variants of the computer worm?
- A. Printers
  - B.\*Thumb drives**
  - C. iPods
  - D. Malware

Source: [http://www.nytimes.com/2012/06/01/world/middleeast/obama-ordered-wave-of-cyberattacks-against-iran.html?pagewanted=3&\\_r=1](http://www.nytimes.com/2012/06/01/world/middleeast/obama-ordered-wave-of-cyberattacks-against-iran.html?pagewanted=3&_r=1)

Page 3 of 5, bottom of page under the “Breakthrough, Aided by Israel” section

9. What is the primary fear that the United States faces in engaging in cyber-attacks?
- A. A bad code could launch a nuclear weapon
  - B. The United States does not have enough skilled engineers to be at the forefront of global cyber warfare
  - C. \*No other country’s infrastructure is more dependent on computer systems, and thus more vulnerable to attack, than that of the United States**
  - D. The military is embarrassed to march with thumb drives

Source: [http://www.nytimes.com/2012/06/01/world/middleeast/obama-ordered-wave-of-cyberattacks-against-iran.html?pagewanted=5&\\_r=1](http://www.nytimes.com/2012/06/01/world/middleeast/obama-ordered-wave-of-cyberattacks-against-iran.html?pagewanted=5&_r=1)

New York Times article “Obama Order Sped Up Wave of Cyberattacks Against Iran” – final paragraph of the article, page 5

10. Based on the report titled “Defending an Open, Global, Secure and Resilient Internet,” how many people will be on the internet by the end of 2020?
- A. 500 Million
  - B. 1 Billion
  - C. \*5 Billion**
  - D. 100 Gazillion

Source: <http://www.cfr.org/cybersecurity/defending-open-global-secure-resilient-internet/p30836?co=C007301>

– “Council on Foreign Relations, Defending an open Global, Secure, and Resilient Internet” under the overview section, sixth paragraph down

## **ROUND 5- MIDDLE EAST**

1. What does MENA stand for?
- A.\* Middle East and North Africa**
  - B. Middle East Nationalist Advocates
  - C. Morocco, Egypt, Nigeria, Algeria
  - D. Mayor Engen’s National Advisory

Source: [http://csis.org/files/publication/130917\\_Cordesman\\_ChangingUSSecurityStrategy\\_Web.pdf](http://csis.org/files/publication/130917_Cordesman_ChangingUSSecurityStrategy_Web.pdf) - first paragraph

2. What is the mission of the Arab League?
- A. To bring economic security to the region by establishing an agreed upon set of rules to govern the markets
  - B.\*To improve coordination among its members on matters of common interest**
  - C. To attract international investment to come into the Middle East
  - D. To bring justice and governance amongst the region’s inhabitants

Source: <http://www.cfr.org/middle-east-and-north-africa/arab-league/p25967> - top of page



3. Approximately 90 percent of Hamas' work is in what area?

- A. Oil, gas, and weapons production
- B. \*Social, welfare, cultural, and educational activities**
- C. Terrorism, training, and religious promotion
- D. International humanitarian projects

Source: <http://www.cfr.org/israel/hamas/p8968#p4> – Under the section titled “Is Hamas only a terrorist group?,” second paragraph

4. Where is the most active proxy war, as identified by the article titled “The Age of Proxy Wars?”

- A. Libya
- B. Iraq
- C. Afghanistan
- D. \*Syria**

Source: [http://csis.org/files/publication/0513\\_MENC.pdf](http://csis.org/files/publication/0513_MENC.pdf) - top of page

5. During early Egyptian history, what did the Pharaoh's surveyors use to measure land and buildings?

- A. Meter sticks
- B. \*Body parts**
- C. Trees
- D. The width of the Nile

Source: <http://www.storyofmathematics.com/egyptian.html> - First paragraph, halfway down

6. What is considered Muhammad Al-Khwarizmi's most important contribution to mathematics?

- A. He developed long division
- B. He can be credited for discovering pi ( $\pi$ )
- C. \*He was an advocate of the Hindu numerical system**
- D. He came up with the grading system for Academic WorldQuest

Source: <http://www.storyofmathematics.com/islamic.html> - four paragraphs down

7. Which of the following countries is **NOT** one of the founders of the Arab League?

- A. Yemen
- B.\*Israel**
- C. Egypt
- D. Syria

Source: <http://www.cfr.org/middle-east-and-north-africa/arab-league/p25967> - second section titled “A League of Their Own”

8. What party came to power after Egypt's first free and fair elections of 2012?

- A. \*The Muslim Brotherhood**
- B. Egyptian Patriotic Movement
- C. Democratic Jihad Party
- D. Reform and Development Party

Source: <http://blogs.cfr.org/danin/2012/12/20/middle-east-matters-ten-most-significant-developments-of-2012/> - Under #2, Muslim Brotherhood Elected in Egypt

9. What triggered the November 2012 demonstrations in Jordan that left one protester dead, and signaled an uprising similar to those in Tunisia and Egypt?

- A. The Jordanian ambassador was killed in Syria
- B. A shortage of kebobs
- C. \*The lifting of fuel subsidies**
- D. The film trailer “The Innocence of Muslims”

Source: [http://blogs.cfr.org/danin/2012/12/20/middle-east-matters-ten-most-significant-developments-of-2012/ - #6](http://blogs.cfr.org/danin/2012/12/20/middle-east-matters-ten-most-significant-developments-of-2012/-#6) – Unrest in Jordan

10. According to the article titled “The Age of Proxy Wars,” what country is becoming more drawn into the political crossfire of the Middle East due to its increased demand for oil?

- A. \*China**
- B. Russia
- C. North Korea
- D. Colombia

Source: [csis.org/files/publication/0513\\_MENC.pdf](http://csis.org/files/publication/0513_MENC.pdf) – see the purple section titled “Gulf Roundtable: China and the Gulf”

### **ROUND 6- U.S. EDUCATION**

1. According to the results that were released in December 2012, how did the United States perform in the PIRLS and TIMSS tests?

- A. \*There was improvement**
- B. The test scores lowered
- C. The results showed the United States leading the world in overall scores
- D. The results showed the United States as last in overall world scores

Source: <http://www.brookings.edu/research/reports/2013/03/18-timss-pirls-scores-loveless> - see youtube video at the top of the page, (see marker 1:15)

2. Why does it appear that Finland is excelling in education?

- A. They devote 45 percent of their tax revenue to education
- B. Their education system is privately funded
- C. It is too cold to do anything else in Finland, so the children just study all the time
- D. \*The children are taking a different test than those in the United States**

Source: <http://www.brookings.edu/research/reports/2013/03/18-timss-pirls-scores-loveless> - go down to the section titled “Finland.”

3. According to the CFR article on U.S. Education Reform and Security, how does the U.S. compare to other developed nations in K-12 public education expenditures?

- A. The U.S. invests the least out of all developed nations in K-12 education
- B. \*The U.S. invests more than any other developed nation in K-12 education**
- C. The U.S. invests more in playground equipment than all other developed nations
- D. The U.S. ranks last in K-12 music education

Source: <http://www.cfr.org/united-states/us-education-reform-national-security/p27618> - top of page

4. What does STEM stand for?

- A. Simms, Troy, Eureka, and Missoula
- B. Social, Teambuilding, Enablement, and Measures
- C. \*Science, Technology, Engineering, and Mathematics**
- D. Student, Technology, Education, and Measures

Source: <http://www.nga.org/files/live/sites/NGA/files/pdf/1112STEMGUIDE.PDF> - Top of page, first paragraph

5. The STEM program promises improvement by encouraging all of the following EXCEPT for what?
- A. Using informal learning to expand math and science, such as after-school programs
  - B. Recruiting and retaining more qualified classroom teachers
  - C. \*Revoking athletic participation if certain standards are not met**
  - D. Establishing goals for postsecondary institutions to meet STEM job needs

Source: <http://www.nga.org/files/live/sites/NGA/files/pdf/1112STEMGUIDE.PDF> - p.6, see bulleted points

6. What was one of the unintended outcomes of No Child Left Behind?
- A. It completely fixed the U.S. education system
  - B. It allowed states to decide on their own if they wanted to comply with No Child Left Behind
  - C. States found ways to get around No Child Left Behind policies
  - D. \*It created incentives for states to lower their standards**

Source: <http://www.whitehouse.gov/issues/education/k-12/reforming-no-child-left-behind> - first paragraph

7. STEM degrees represent more than 50% of the students' first degrees awarded in Singapore, China, and which other country?
- A. South Korea
  - B. \*Japan**
  - C. United States
  - D. Brazil

<http://www.nga.org/files/live/sites/NGA/files/pdf/1112STEMGUIDE.PDF> - last paragraph in 1st column, pg. 5

8. PISA is a collaboration of more than 70 countries comparing student achievement surveys. What is the purpose of these assessments?
- A. \*Inform countries on the degree to which their students are prepared for life**
  - B. Award global ranking honors for the highest performing countries
  - C. To determine the lowest performing countries and provide financial assistance
  - D. To identify the most intelligent students and recruit them for high-level government positions

Top of page 19 - <http://www.oecd.org/pisa/46623978.pdf>

9. Although the United States is a nation of immigrants, roughly what percentage of Americans speak only English?
- A. 30%
  - B. 50%
  - C. \*80%**
  - D. 95%

<http://www.cfr.org/united-states/us-education-reform-national-security/p27618> seventh paragraph down, including bullets

10. Based on the 2011 TIMSS results, where were the top-performing students in math from?
- A. \*Asia**

- B. North America
- C. Europe
- D. Hogwarts School of Witchcraft and Wizardry

Source: <http://www.brookings.edu/research/reports/2013/03/18-timss-pirls-scores-loveless> - under the section called "U.S. National Achievement," second paragraph

## ROUND 7- GEOGRAPHY

1. Turkmenistan is bordered by four countries. They are Kazakhstan, Uzbekistan, Iran, and which other country?

- A. Turkey
- B. \*Afghanistan**
- C. Russia
- D. Kyrgyzstan

Source: [http://maps.nationalgeographic.com/maps/atlas/asia-geophysical.html?rptregcta=reg\\_free\\_np&rptregcampaign=20131016\\_rw\\_membership\\_nlp\\_us\\_ot\\_c1#finished](http://maps.nationalgeographic.com/maps/atlas/asia-geophysical.html?rptregcta=reg_free_np&rptregcampaign=20131016_rw_membership_nlp_us_ot_c1#finished)

2. What is the capital of Brazil?

- A.\*Brasilia**
- B. São Paulo
- C. Rio de Janeiro
- D. Manaus

Source: [http://maps.nationalgeographic.com/maps/atlas/asia-geophysical.html?rptregcta=reg\\_free\\_np&rptregcampaign=20131016\\_rw\\_membership\\_nlp\\_us\\_ot\\_c1#finished](http://maps.nationalgeographic.com/maps/atlas/asia-geophysical.html?rptregcta=reg_free_np&rptregcampaign=20131016_rw_membership_nlp_us_ot_c1#finished)

3. What effects have dams had on The Nile River over the past fifty years?

- A. \*They have increased irrigation and provided cheap electricity**
- B. They have caused droughts
- C. There has been significant violence over who controls the river
- D. Helped high school students keep from studying

Source: <http://maps.nationalgeographic.com/maps/atlas/africa-human-footprint.html> - See the block on the top right hand side of the page which attaches to Egypt

4. Ironically, Africa's largest city also has the smallest carbon footprint. What is the name of this city?

- A. Dakar, Senegal
- B. Mogadishu, Somalia
- C. Cape Town, South Africa
- D.\*Lagos, Nigeria**

<http://maps.nationalgeographic.com/maps/atlas/africa-human-footprint.html>

5. What is the name of the Gulf that lies between Sweden and Finland?

- A. Gulf of Aden
- B. Clark Fork Gulf
- C.\*Gulf of Bothnia**
- D. Gulf of Finland

Source: <http://maps.nationalgeographic.com/maps/atlas/europe-geophysical.html> - see map

6. What kind of technology is used to capture, store, check, and display data related to positions on the Earth's surface?
- A. Global Positioning System (GPS)
  - B. \*Geographic Information System (GIS)**
  - C. Weather Doppler System
  - D. Xbox One

[http://education.nationalgeographic.com/education/encyclopedia/geographic-information-system-gis/?ar\\_a=1](http://education.nationalgeographic.com/education/encyclopedia/geographic-information-system-gis/?ar_a=1) (First sentence of article)

7. What is the name of the sea that lies between Italy and Croatia?
- A. Mediterranean Sea
  - B. Ionian Sea
  - C. \*Adriatic Sea**
  - D. Aegean Sea

<http://maps.nationalgeographic.com/maps/atlas/europe-geopolitical.html>

8. What is Africa's most densely populated country?
- A. \*Mauritius**
  - B. Madagascar
  - C. Equatorial Guinea
  - D. Ethiopia

<http://maps.nationalgeographic.com/maps/atlas/africa-human-footprint.html>

9. The equator runs through 13 countries. Which of the following is NOT one of those countries?
- A. Indonesia
  - B. Uganda
  - C. Brazil
  - D. \*Morocco**

<http://maps.nationalgeographic.com/maps/atlas/australia-geopolitical.html>

10. Greenland is an autonomous territory of which country?
- A. Norway
  - B. \*Denmark**
  - C. Canada
  - D. Sweden

<http://maps.nationalgeographic.com/maps/atlas/north-america-geopolitical.html>

### **ROUND 8- UN MILLENNIUM DEVELOPMENT GOAL #1- ERADICATE EXTREME POVERTY AND HUNGER**

1. Globally, how many people are estimated to be undernourished?
- A. 50,000
  - B. 100,000
  - C. 1.9 million
  - D. \*870 million**

Source - <http://www.un.org/millenniumgoals/poverty.shtml> - under target 1C

2. What fraction of people worldwide currently go hungry?

- A. 1/3
- B. \*1/8**
- C. 1/10
- D. 1/20

Source: [http://www.un.org/millenniumgoals/pdf/Goal\\_1\\_fs.pdf](http://www.un.org/millenniumgoals/pdf/Goal_1_fs.pdf) - Look under “fast facts” at the top of the page.

3. Which group decided to adopt the Millennium Development Goals in 2000?

- A. NATO
- B. ASEAN
- C. United Nations Security Council
- D. \*United Nations Member States**

4. According to “The Millennium Development Goals Report,” what is a significant barrier to effective policymaking on monitoring poverty?

- A. Government cooperation
- B. Some communities still operate tribally, so it is difficult to compare rates of poverty
- C.\*Availability, frequency, and quality of poverty monitoring data remain low**
- D. Collective action problems

Source: <http://www.un.org/millenniumgoals/pdf/report-2013/mdg-report-2013-english.pdf> - see page 7, brown box on the right

5. Between 1990 and 2011, what region saw the highest proportion of children under age five who were moderately or severely underweight?

- A. Sub-Saharan Africa
- B. South East Asia
- C. Northern Africa
- D.\*Southern Asia**

Source: [www.un.org/millenniumgoals/pdf/report-2013/mdg-report-2013-english.pdf](http://www.un.org/millenniumgoals/pdf/report-2013/mdg-report-2013-english.pdf) - see the chart on page 11, right side of the page

6. According to the World Bank, what is one of Mali’s biggest exports?

- A. \*Peanuts**
- B. Bananas
- C. Oranges
- D. Pecans

[http://www.worldbank.org/mdgs/poverty\\_hunger.html](http://www.worldbank.org/mdgs/poverty_hunger.html) - see photo

7. Between 1990 and 2010, the share of the population of the developing world living in extreme poverty was reduced by how much?

- A. 30%
- B. 40%
- C. \*50%**
- D. 75%

[http://www.brookings.edu/~media/Research/Files/Reports/2013/04/ending%20extreme%20poverty%20candy/The\\_Final\\_Countdown.pdf](http://www.brookings.edu/~media/Research/Files/Reports/2013/04/ending%20extreme%20poverty%20candy/The_Final_Countdown.pdf) (first sentence of introduction)

8. China, India, and which region of the world account for 75% of the world's poverty?
- A. Central Asia
  - B. North Africa
  - C. Southeast Asia
  - D. \*Sub-Saharan Africa**

[http://www.brookings.edu/~media/Research/Files/Reports/2013/04/ending%20extreme%20poverty%20candy/The\\_Final\\_Countdown.pdf](http://www.brookings.edu/~media/Research/Files/Reports/2013/04/ending%20extreme%20poverty%20candy/The_Final_Countdown.pdf) (Last paragraph of page 9, under "three giants")

9. Despite steady gains, what proportion of children in the world show signs of stunted growth?
- A. 1 in every 2 children
  - B. \*1 in every 4 children**
  - C. 1 in every 100 children
  - D. 1 in every 1,000 children

Source: <http://www.un.org/millenniumgoals/pdf/report-2013/mdg-report-2013-english.pdf> - top right of page

10. In Yemen, what percentage of primary school-aged girls do not attend school?
- A. 5%
  - B. \*60%**
  - C. 75%
  - D. 100%

Source: [http://www.un.org/millenniumgoals/pdf/Goal\\_1\\_fs.pdf](http://www.un.org/millenniumgoals/pdf/Goal_1_fs.pdf) - second paragraph down, on the left

## ROUND 9 – CURRENT EVENTS

1. Malaysian Prime Minister Najib Razak said Monday that new information from satellite data showed missing Malaysia Airlines Flight 370 ended where?
- A. Among the Paracel Islands in the South China Sea
  - B. In the Gulf of Thailand
  - C. \*In the Indian Ocean**
  - D. The location has yet to be identified

Source: [http://www.washingtonpost.com/world/asia\\_pacific/malaysian-prime-minister-says-flight-mh370-ended-in-the-southern-indian-ocean/2014/03/24/cb28ffc6-b370-11e3-8020-b2d790b3c9e1\\_story.html?tid=pm\\_world\\_pop](http://www.washingtonpost.com/world/asia_pacific/malaysian-prime-minister-says-flight-mh370-ended-in-the-southern-indian-ocean/2014/03/24/cb28ffc6-b370-11e3-8020-b2d790b3c9e1_story.html?tid=pm_world_pop)

2. Which major European city recently implemented restrictions on driving after several days of high pollution levels?
- A. London, United Kingdom
  - B. \*Paris, France**
  - C. Berlin, Germany
  - D. Rome, Italy

<http://www.bbc.com/news/world-europe-26599010> (First sentence)

3. What former NBA star has been in the spotlight lately for publicly going to North Korea and spending time with Kim Jong Un?

- A. Larry Bird
- B. Shaquille O'Neal
- C. Michael Jordan
- D.\*Dennis Rodman**

Source - <http://www.cnn.com/2014/01/31/us/dennis-rodman-5-things/index.html?iref=allsearch>

4. What area of Ukraine did Russia recognize as a sovereign nation on March 17<sup>th</sup>, 2014?

- A. \*Crimea**
- B. Donetsk
- C. Kharkiv
- D. Kiev

<http://www.bbc.com/news/world-europe-26621726> (First sentence)

5. Senator Max Baucus was recently appointed to serve as ambassador to which country?

- A. \*China**
- B. Thailand
- C. Butte
- D. Norway

Source: <http://www.bbc.co.uk/news/world-asia-china-26062887>

6. In the Slapshot Physics video the key to the slapshot speed is the result of the stick actually striking the ice before making contact with the puck. This adds flex to the stick, loading it with what type of energy?

- A. Kinetic energy
- B. \*Potential energy**
- C. Gravitational energy
- D. Conductor energy

<http://www.nbclearn.com/portal/site/learn/science-of-the-olympic-winter-games> - Time: 2:40

7. What popular game for mobile devices was removed from online stores by its Vietnamese creator, who said its fame “ruins my simple life” but who is now thinking about bringing the game back?

- A. Words With Friends
- B. Farmville
- C. Candy Crush
- D. \*Flappy Bird**

<http://www.cnn.com/2014/02/09/tech/flappy-bird-removed-from-app-stores/index.html>

8. In order for the White House to review the petition “Deport Justin Bieber and revoke his green card” how many signatures need to be collected?

- A. 200
- B. Why would we ever want Justin Bieber to leave America? I have Bieber Fever!
- C. \*100,000**
- D. 1 million



Source: <http://abcnews.go.com/Entertainment/white-house-address-petition-deport-justin-bieber/story?id=22284038>

9. What animal is the symbol of the 2014 Chinese New Year?

- A. Monkey
- B. \*Horse**
- C. Rooster
- D. Snake

Source: [http://www.huffingtonpost.com/2014/01/31/chinese-new-year-2014-horse\\_n\\_4688672.html](http://www.huffingtonpost.com/2014/01/31/chinese-new-year-2014-horse_n_4688672.html)

10. Who was named Time magazine's Person of the Year in 2013?

- A. Edward Snowden
- B. Pope Francis**
- C. Miley Cyrus
- D. Mayor Engen

[http://www.washingtonpost.com/pb/national/on-leadership/time-magazines-person-of-the-year-finalists-for-2013/2013/12/09/e0923f84-610a-11e3-94ad-004fefa61ee6\\_gallery.html#item0](http://www.washingtonpost.com/pb/national/on-leadership/time-magazines-person-of-the-year-finalists-for-2013/2013/12/09/e0923f84-610a-11e3-94ad-004fefa61ee6_gallery.html#item0)

#### ROUND 10 – GLOBAL ENVIRONMENTAL ISSUES

1. According to the Pew Research Poll, which country appears to be least concerned with climate change?

- A. \*Pakistan**
- B. Argentina
- C. Brazil
- D. Turkey

Source: <http://www.pewglobal.org/2010/06/17/chapter-8-environmental-issues-2/> - second graph down on the page

2. By 1992, the UN Environment Program (UNEP) had established the link between the environment and the need for what type of development?

- A. \*Sustainable**
- B. Ecological
- C. Democratic
- D. Educational

Source: <http://www.un.org/en/globalissues/environment/index.shtml> - UN Website "Environment Overview," nine paragraphs down (not counting the content in the blue boxes)

3. Why are developing economies particularly sensitive to environmental challenges, thus making it all the more necessary to have "green" growth?

- A. They rely too much on international investors
- B. \*They often rely upon the intensive use of natural resources**
- C. They are stuck in primitive, agrarian-based economic models
- D. They are less sensitive to environmental challenges, because they do not require high quantities of fossil fuels

Source - [http://www.oecd.org/development/environment-development/Putting%20Green%20Growth%20at%20the%20Heart%20of%20Development\\_Summary%20For%20Policymakers.pdf](http://www.oecd.org/development/environment-development/Putting%20Green%20Growth%20at%20the%20Heart%20of%20Development_Summary%20For%20Policymakers.pdf) – "Putting Green Growth at the Heart of Development – Summary for Policymakers" p.6, second paragraph

4. Of all developing regions, South America and what other continent saw the largest net losses of forest areas between 2000 and 2010?

- A. Europe
- B. Antarctica
- C. Montana
- D. \*Africa**

Source: <http://www.un.org/millenniumgoals/envIRON.shtml> - See under Target 7.A

5. According to the United States Environmental Protection Agency, what condition has been causing the atmosphere to retain heat?

- A. Changes in the moon's orbit
- B. Harmonic Tremors
- C. \*The Greenhouse Effect**
- D. The Core Cooling Phenomenon

Source: <http://www.epa.gov/climatechange/science/causes.html> - EPA Causes of Climate Change, second section down titled "The Greenhouse Effect causes the atmosphere to retain heat"

6. Which of the following is one of the primary Greenhouse Gases directly emitted by humans?

- A. \*Nitrous Oxide (N<sub>2</sub>O)**
- B. Oxygen (O)
- C. Helium (He)
- D. Hydrochloric Acid (HCl)

Source- <http://www.epa.gov/climatechange/science/causes.html> - EPA Causes of Climate Change, Section titled "The Main Greenhouse Gases"

7. Based on the Pew Research poll, which country was most adamant about protecting the environment, even if it slows growth and costs jobs?

- A. Japan
- B. Pakistan
- C. United States
- D.\*India**

Source: <http://www.pewglobal.org/2010/06/17/chapter-8-environmental-issues-2/> - graph at the top of the page

8. In an attempt to reduce pollution, the Obama administration has proposed fuel economy standards to double the fuel efficiency of cars and light trucks by what year?

- A. 2015
- B. 2020
- C. \*2025**
- D. 2050

Source: <http://www.whitehouse.gov/energy/our-environment> - sixth section down, titled Reducing Air Pollution"

9. According to the Smithsonian article on climate change, which of the following conditions may be contributing to a rise in armed conflict?

- A. An increase in volcanic eruptions
- B. Changes in tidal patterns

C. A decrease in droughts

**D. \*Erratic rainfall patterns**

Source: <http://www.smithsonianmag.com/science-nature/climate-change-could-increase-armed-conflicts-by-50-percent-worldwide-21877093/> - Smithsonian article "Climate Change Could Increase Armed Conflicts By 50 Percent Worldwide" second paragraph down

10. Based on the NBC Learn video titled "Melting Mountain Glaciers," why are the glaciers on Mt. Kilimanjaro not moving?

A. The tectonic plates that run under Tanzania are converging

**B. \*There is not enough snow and ice pressing down on the glacier**

C. Neanderthals from prehistoric times glued them there

D. The Earth's temperature is too high to allow the glaciers to move

Source: <http://www.nbclearn.com/portal/site/learn/changing-planet> - "Melting Mountain Glaciers," towards the beginning of the video