

Maryland Spring 2014 - Get Your Pencil and Paper Ready for Round 12

Packet 6

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Tossups

1. **This author wrote of men who are “no longer at ease” among “an alien people clutching their gods” in his poem “Journey of the Magi.” One of his poems states “For thine is the kingdom” in a section that begins “here we go round the prickly pear.” He described a “Headpiece (*) stuffed with straw” in a poem that ends by repeating the line “This is the way the world ends.” The speaker of another of his poems wonders “Do I dare to eat a peach?” and “Do I dare disturb the universe” after seeing women “talking of Michelangelo.” For 10 points, name this poet of ‘The Hollow Men’ and “Love Song of J. Alfred Prufrock.”**

ANSWER: Thomas Stearns Eliot

2. **This character’s first appearance saw him declare “If you really want to tangle with someone, why not try your luck against” this man, and that appearance was in Incredible Hulk number 180. This character is sent to hell by the “Red Right Hand” in one storyline, and one nemesis of this character has the same attributes as him and is named Lady Deathstrike. One recent film about this character sees him square off against Major William (*) Stryker, and one of this man’s names comes from this man’s biological father, a groundskeeper named Thomas Logan. This character’s powers include rapid regeneration and a certain feature made out of adamantium. For 10 points, name this Marvel Comics character played in movies by Hugh Jackman, known for his big claws.**

ANSWER: Wolverine or James Howlett (accept Logan before read)

3. **The six- to eight-ppm area of the spectrum of this technique is referred to as the aromatic region. A common solvent for this procedure is deuterated chloroform with trace amounts of tetramethylsilane. This technique can detect carbon particles in its (*) carbon-13 variant. Hydrogen peaks in the spectra for this technique can be split depending on the number of neighboring hydrogens. For 10 points, identify this technique which exposes samples to a magnetic field, similar to the medical technique of MRIs.**

ANSWER: NMR spectroscopy (or nuclear magnetic resonance spectroscopy)

4. **At this event, Hieronymus Balbus appeared to call for a crusade against the Turks. Girolamo Aleandro compiled a report following this event and, three years prior to this meeting, Thomas Cajetan investigated its central issues. After leaving this meeting, one participant was kidnapped by four masked horsemen and taken to (*) Wartburg castle at the behest of Frederick III of Saxony; that man was questioned by Johann Eck at this meeting and stated “here I stand, I can do no other.” For 10 points, identify this assembly presided over by Holy Emperor Charles V, a 1521 meeting which condemned Martin Luther for heresy.**

ANSWER: the Diet of Worms of 1521

5. **A composer from this country set “The Heavenly Banquet” and “Sea Snatch” to music in the cycle *Hermit Songs*. Ferde Grofé wrote a suite inspired by a natural landmark in this country, while Otto Klemperer and Igor Stravinsky moved to this country at the outbreak of (*) WWII. A composer from this country created one work in response to an essay contest for a newspaper and wrote several works for military band, earning him the nickname “The March King.” For 10 points, name this country home to the composer of “The Stars and Stripes Forever,” John Philip Sousa.**

ANSWER: United States of America

6. **The Egyptian goddess Bat is depicted with the head of this non-cat animal. A daughter of Inachus was transformed into one of these creatures and harassed by a gadfly sent by Hera. Odysseus ends up on Calypso's island after his men eat some of these creatures belonging to (*) Helios. The Norse frost giant Ymir was nourished by one of these creatures named Audhumla, and Cadmus founded Thebes on the spot where one of these creatures stopped to rest. The Egyptian Hathor was depicted as one of these creatures. Daedalus built a wooden one of these creatures to allow Pasiphaë to mate with a bull, producing the Minotaur. For 10 points, name these creatures which are revered in Hinduism.**

ANSWER: cows

7. **One formulation of the hierarchy problem asks why the Planck scale for this unit is so anomalously large. Particles which violate conservation laws for short times are said to be off of the "shell" named for this quantity. The only scalar in the standard model creates this property via spontaneous breaking of electroweak symmetry. A major pillar of general relativity is that two different forms of this quantity are the same; that is the (*) equivalence principle. The Chandrasekhar limit is about 1.4 times the sun's value for this quantity. The potential energy due to gravity is proportional to this quantity for both objects involved, and force is this quantity times acceleration. For 10 points, name this quantity which is the amount of stuff something has, measured in kilograms.**

ANSWER: mass

8. **In one debate, this man awkwardly walked up to his opponent after asking that man's thoughts on the Dingell–Norwood bill. This man was on a ticket that won an election following a debate in which one of this man's opponents in that debate asked, "Who am I? Why am I here?" as part of his opening statement. This man asked his opponent not to tell any football stories while debating with Jack (*) Kemp. A long-time senator from Tennessee, this man ran on a ticket with last Democratic president to win the states of Kentucky and Tennessee. For 10 points, name this man who was the vice president under Bill Clinton, the supposed inventor of the internet and noted global warming advocate.**

ANSWER: Albert Gore Jr.

9. **This character admits that "man delights not me; no, nor woman neither." Later, he claims that "there's special providence in the fall of a sparrow." In one scene, this character declares "Now I am alone. Oh what a rogue and peasant slave am I" shortly after giving a speech advising some (*) actors to "speak the speech... as I pronounced it to you." This character laments a "fellow of infinite jest" in a scene where he contemplates Yorick's skull. For 10 points, name this man who wonders "to be or not to be," a prince of Denmark created by William Shakespeare.**

ANSWER: Prince Hamlet

10. **This artist showed a woman plummeting to the ground in front of a white skyscraper shrouded by clouds in her depiction of *The Suicide of Dorothy Hale*. This artist depicted a floating baby above a woman on a bed that reads "HENRY FORD HOSPITAL DETROIT." One of this artist's paintings shows the open ribcage of a nude woman covered with nails, revealing her full spine, which is made of a shattered stone (*) column. Another of her works shows her wearing a thorny necklace while a monkey and a cat rest on her shoulders. This artist was married to the muralist of *Man at the Crossroads*. For 10 points, name this Mexican artist known for her self portraits, the wife of Diego Rivera.**

ANSWER: Frida Kahlo

11. **Rice's theorem generalizes one result about this property to any non-trivial property about the language recognized by a Turing machine. One number denoted capital omega determines the probability of a program having this property; that is Chaitin's constant. In 1936, Turing independently proved that there**

exists no (*) algorithm to determine if a program will do this, making the problem of this property undecidable. For 10 points, name this property of programs which means that they stop instead of running forever.

ANSWER: halting problem

12. One uprising in this modern-day country was aided by Juan del Aguila, and that revolt ended after the Siege of Kinsale. That siege took place during this modern-day country's Nine Years War. A man was supposedly beaten to death with his own wooden leg in another siege that occurred in this modern-day nation. That siege at Drogheda ended in a massacre of civilians by members of the New (*) Model Army. After a revolt in 1641, this modern-day nation was invaded by Oliver Cromwell during the English Civil War. For 10 points, name this nation in which Cromwell had to take provinces like Munster and Ulster after landing in Dublin.

ANSWER: Ireland

13. One story by this author ends with Heloise crying "I was a good girl, wasn't I?" One novel by this author features a girl who writes stories about a girl detective named Hazel Weatherfield and includes a scene in which one character discusses *Romeo and Juliet* with two nuns. This author of "Uncle (*) Wiggily in Connecticut" also wrote a story in which Seymour shoots himself in his hotel room after playing with a child on the beach. His best known character leaves some fencing foils on a subway and later gives his red hunting cap to his sister Phoebe. For 10 points, name this author of "A Perfect Day for Bananafish" who wrote about Holden Caulfield in *Catcher in the Rye*.

ANSWER: Jerome David Salinger

14. A club called the "Forty-Sixers" includes people who have climbed all forty-six of this range's mountains over 4000 feet, its namesake "High Peaks." Ebenezer Emmons named this range, which contains the Raquette River in its far northern terminus. The Finger Lakes lie at the southwestern end of this range, which includes Mount Haystack and Algonquin Peak. Lake Tear-of-the- (*) Clouds lies between Mount Skylight and Mount Marcy in this range, which is the source of the Hudson River. For 10 points, name this extension of the Appalachian Mountains located in the state of New York.

ANSWER: Adirondack Mountains

15. Mark Hofman published a forged biography of one of this faith's leaders in the Salamander letter. In 1978, Spencer W. Kimball received a revelation which caused this faith to reverse one of its policies. The priests of this faith are divided into the Aaronic and the Melchizedek orders. Members of this faith aided the Paiute Indians in committing the (*) Mountain Meadows Massacre. The *Pearl of Great Price* is a canonical work of this faith, which was founded after the discovery of some gold tablets written in "Reformed Egyptian." For 10 points, name this faith founded by Joseph Smith, which has many adherents in Utah.

ANSWER: Mormons (or The Church of Jesus Christ of Latter-day Saints)

16. In this novel, a woman is frustrated that her children only know the song "Our Village" when she forces them to dance and sing for money. The protagonist of this novel has a dream about a horse being beaten to death and later becomes hysterical at the Crystal Palace bar. A pedophilic landowner (*) shoots himself in front of a policeman in this novel which also features a drunkard who is run over by a carriage, Marmeladov. Porfiry Petrovich investigates the protagonist of this novel, who is eventually sent off to Siberia. For 10 points, identify this novel centering on Raskolnikov's axe-murder of a pawnbroker by Fyodor Dostoyevsky.

ANSWER: Crime and Punishment (or Prestuplenye y Nakazanye)

17. Certain flatworms living in the hepatopancreas of Heterobranchian members of this phylum can cause schistosomiasis. This phylum's family Helicinidae protects itself with an operculum. The predatory Naticidae attacks other members of this phylum, gaining access using acid and a characteristic structure that is also

used as a poisoned (*) harpoon in the family Conidae. Some members of this phylum use a byssus to attach themselves to objects. The hyaline shield and odontophore sandwich the chitinous ribbon used for feeding by this phylum, the radula. Members of this phylum have a visceral mass covered by a mantle, and include bivalves and gastropods. For 10 points, name this phylum that includes cephalopods, snails, and clams.

ANSWER: Mollusca (or molluscs)

18. This director collaborated with Alberto Lattuada on his first film, which follows a struggling acting troupe. This man included a scene where a tenement house is destroyed for seemingly no reason in a film featuring Encolpio, Ascilto, and Gitone, his adaptation of the *Satyricon*. One of this man's films opens with a shot of a helicopter carrying a statue of Jesus Christ over Rome and relates the story of the reporter Marcello (*) Rubini's relationship with Emma while covering the arrival of the actress Sylvia into town. He included the director Guido Anselmi in a film whose title references the number of films he had made up to that point. For 10 points, name this Italian director of *La Dolce Vita* and *8½*.

ANSWER: Federico Fellini

19. A famous *Life* Magazine cover depicted people in this location climbing a light pole to raise a flag. During that event twenty-eight people were killed in this location on a date that is now known as Martyrs Day. This location was the subject of the Ronald Reagan quote, "We built it. We (*) paid for it. It's ours." This location was transferred between countries on December 31, 1999, because of an agreement signed between Omar Torrijos and Jimmy Carter. This location was the birthplace of John McCain. For 10 points, name this location built from 1903 to 1904, that connects the Atlantic Ocean to the Pacific Ocean across an isthmus in a namesake Central American country.

ANSWER: Panama Canal Zone

20. John Jakob Raskob was instrumental in financing this structure, and Robert Wiles took a famous photo in front of this structure in 1947. In 2010 this structure underwent \$500 million dollar renovations, and this structure was filmed for eight consecutive hours by Andy (*) Warhol in a namesake movie. Police officers accidentally shot nine bystanders in front of this building in 2012. One part of this structure was originally meant to be a mooring point for dirigibles, and this building was featured prominently in the film *King Kong*. This building is closed off past its 86th floor, its observation deck. For 10 points, name this tallest building in New York City.

ANSWER: Empire State Building

Bonuses

1. Answer the following about foehn winds. For 10 points each:

[10] Foehn winds occur when air currents hit these large features and are forced upward. The air precipitates out moisture on one side, causing a rain shadow on the other sides of them.

ANSWER: mountain range

[10] The lapse rate describes how this variable decreases as height increases. The differential of this quantity on both sides of a mountain causes foehn winds.

ANSWER: temperature

[10] This is the name for wind that flows downhill due to gravity. Foehn winds are not this type of wind because they aren't gravity driven, and these winds are often very cold.

ANSWER: katabatic winds

2. This wielder of Excalibur was often advised by the wizard Merlin. For 10 points each:

[10] Name this husband of Guinevere who led the Knights of the Round Table. He famously pulled a sword from a stone.

ANSWER: King Arthur

[10] Arthur was fatally wounded by this figure at the Battle of Camlann. He was the illegitimate son of Arthur by Morgause, and as a baby he survived a shipwreck engineered by his father on May Day.

ANSWER: Mordred (accept Modred or Medraut)

[10] Arthur was conceived when Uther Pendragon infiltrated Tintagel Castle while disguised as this figure. This first husband of Igraine is killed in battle on the night of Arthur's conception.

ANSWER: Gorlois (or Gwrlais)

3. Answer some questions about concepts in linguistics. For 10 points each:

[10] Noam Chomsky theorized a "Universal" kind of *this*, the rules involving the structure of the formation of words and phrases in a language. Syntax is a subset of this set of rules.

ANSWER: grammar

[10] These entities, which can be "bound" or "free," are the smallest grammatical units within a language. They can be combined to make words, although some of these entities can be words on their own.

ANSWER: morphemes

[10] This subfield of linguistics is the study of "meaning-making," and it includes the study of signs and designation. Umberto Eco famously did a study of this field.

ANSWER: semiotics or semiology

4. This character urinates on one of five pillars to mark that he has reached the end of the universe, only to discover that those pillars are the fingers of the Buddha's hand. For 10 points each:

[10] Name this character who later is released from imprisonment under a mountain and helps protect Xuanzang on his pilgrimage.

ANSWER: Sun Wukong (accept either name; accept, BUT DO NOT READ IF NOT GIVEN, Monkey King)

[10] Sun Wukong appears in this novel which is named for the expedition he undertakes with Sandy and Pigsy to Vulture Peak in India.

ANSWER: Journey to the West (or Monkey)

[10] Along with *Romance of the Three Kingdoms*, *Journey to the West* is one of the four great classical novels of this Asian country.

ANSWER: China

5. Samuel Dickstein used HUAC to go after this organization that held a large rally in Madison Square Garden in 1939. For 10 points each:

[10] Name this organization, formed prior to World War II, that was made up of immigrants from a country led by Adolf Hitler.

ANSWER: German American **Bund** (or **German American Federation**)

[10] The members of the Bund were probably big fans of this anti-Semite and leader of the America First Committee. Earlier, he had flown *The Spirit of St. Louis* on the first solo flight over the Atlantic.

ANSWER: Charles **Lindbergh**

[10] Large protests supporting the America First Committee were held at this large state school. This university would also be the home of large protests in the 1960s in the “People’s Park” near its campus.

ANSWER: University of **California**, Berkeley (or University of California, **Berkeley**)

6. This composer’s aptly titled *Study Symphony* was written while studying under his mentor Otto Kitzler and is unusually referred to as his Symphony No. 00. For 10 points each:

[10] Name this composer and fan of Richard Wagner, whose *Romantic Symphony* was inspired not by love, but by a kind of medieval narrative.

ANSWER: Anton **Bruckner**

[10] Anton Bruckner was a composer from this country. Hans Richter, who premiered the *Romantic Symphony*, was the director of this country’s Vienna Philharmonic on two separate occasions.

ANSWER: **Austria**

[10] Bruckner’s *Romantic Symphony* is his symphony of this number. A symphony of this number by Beethoven *precedes* a symphony that opens with a “short-short-short-long” motif, while a visit to Italy inspired Mendelssohn’s symphony of this number.

ANSWER: **four**

7. In one scene of this novel, Professor Uzzi-Tuzzi reads aloud from an incomplete Cimmerian novel called *Leaning from the steep slope*. For 10 points each:

[10] Identify this novel written in second person. It ends with you finishing this book in bed next to your wife Ludmilla.

ANSWER: **If on a winter’s night a traveller** (or **Se una notte d’inverno un viaggiatore**)

[10] *If on a winter’s night a traveller* was written by this Italian author of *Invisible Cities*.

ANSWER: Italo **Calvino**

[10] In Calvino’s *Invisible Cities*, this historical figure converses with Kublai Khan about the cities he has visited. In real life, this Italian explorer authored a rather fanciful travelogue describing his travels in China.

ANSWER: **Marco Polo** (accept either name)

8. This test often adds rat liver S9 fraction to simulate metabolism. For 10 points each:

[10] Identify this test that uses salmonella modified to require histidine and subjects them to compounds that may cause point or frameshift mutations.

ANSWER: **Ames** test

[10] The Ames carcinogen test no longer uses this substance. Plates of this polysaccharide gel are often used to grow bacteria.

ANSWER: **agar**

[10] The Ames test can give a false positive for this compound, whose induced synthase binds calmodulin in immune response. Heart medications like nitroglycerin and amyl nitrate are converted to this compound.

ANSWER: **nitric oxide** (accept **NO** or **nitrogen monoxide**; do not accept “nitrous oxide”)

9. This leader was succeeded by a man known as Khalifa and he was defeated at the Battle of Atbara. For 10 points each:

[10] Name this man who claimed to be a religious leader while leading a rebellion in Northern Africa during the 1880s and 90s.

ANSWER: the **Mahdi** (or Abdullah **al-Taaisha**)

[10] Most of the Mahdi's army was destroyed at this battle in present day Sudan. A victory for Lord Kitchener, it effectively ended the Mahdist Revolt.

ANSWER: Battle of **Omdurman**

[10] The Mahdi's army did defeat and kill Chinese Gordon after a siege of this city, currently the capital of Sudan.

ANSWER: **Khartoum**

10. In one story, this character eats vegetables and drinks water for ten days instead of food and wine from the King's table, and at the end of the ten days looked healthier than all the other young men. For 10 points each:

[10] Name this character who interpreted some of the King's dreams and got thrown into a lion's den.

ANSWER: **Daniel**

[10] Daniel's religious devotion almost got the better of him when an edict was issued that anyone who prays to any God or man besides this king would get thrown into a lion's den. This King later felt bad and threw Daniel's accusers in the den instead.

ANSWER: King **Darius**

[10] Daniel also interpreted the writing on the wall at this figure's feast to mean that Babylon would be crushed by the Medes and the Persians.

ANSWER: King **Belshazzar**

11. This poet wrote "Ask not for whom the bell tolls" in his prose work *Devotions upon Emergent Occasions*. For 10 points each:

[10] Name this Metaphysical poet who compared himself and his love to "stiff twin compasses" in "A Valediction Forbidding Mourning."

ANSWER: John **Donne**

[10] In one of his *Holy Sonnets*, Donne claims that this concept "art slave to Fate, Chance, kings" and tells it to "be not proud." In a Dickinson poem, she mentions that she "could not stop" for this concept.

ANSWER: **"Death be not proud"** (do not accept any synonyms)

[10] A poem by Donne in which the speaker declares he would never be "chaste, except you ravish me" begins by asking a "three person'd God" to perform this action. Exact three word phrase required.

ANSWER: **"Batter my heart"** three-person'd God

12. This conflict began with the invasion of Silesia by Frederick the Great. For 10 points each:

[10] Name this war fought after the death of Charles VI.

ANSWER: War of **Austrian Succession**

[10] The War of Austrian Succession was fought because of the ascension of this female Habsburg monarch.

ANSWER: **Maria Theresa** Walburga Amalia Christina

[10] Maria Theresa was opposed by a bunch of monarchs during the war including this Bourbon king from Spain. He briefly abdicated the throne in 1724, only for his son Louis to die that year.

ANSWER: **Philip V** (prompt on "Philip")

13. This fast casual restaurant recently stopped selling pork in some of its locations. For 10 points each:

[10] This burrito-rolling chain was founded by Steve Eells in 1993. Popular options include the burrito bowl, and guac will cost you \$1.89 extra.

ANSWER: **Chipotle** Mexican Grill

[10] For meat at Chipotle, you can choose either Chicken, Steak, Barbacoa, Sofritas, or this kind of pork dish, which is cut into small pieces and then braised until it's very tender.

ANSWER: **Carnitas**

[10] Chipotle recently financed the online miniseries "Farmed and Dangerous," which starred this actor as Buck Marshall. He's known for playing creepy characters like Leland in *Twin Peaks* and the Devil on *Reaper*.

ANSWER: Ray **Wise**

14. The diagrams named for this physicist are ways to represent possible scattering processes. For 10 points each:

[10] Name this lock-picking, bongo-playing, eccentric American physicist.

ANSWER: Richard **Feynman**

[10] The point of Feynman diagrams is to get these quantities for scattering processes. This represents the likelihood of a process, and measured in units of area.

ANSWER: scattering **cross-section**

[10] Computing cross sections is easy at tree level, but this problem arises when considering loops. Renormalization is needed to get rid of places where the integral does this.

ANSWER: ultraviolet **divergence** (accept **diverge** or word forms; accept things like "it goes to **infinity**")

15. He painted a checkered floor and a woman playing the virginal in *The Music Lesson*. For 10 points each:

[10] Identify this Dutch genre painter best known for depicting his seaside hometown in *View of Delft*.

ANSWER: Jan **Vermeer** (accept with similar first names like Johannes or Johan)

[10] A woman in a blue turban against a black background stares at the viewer in Vermeer's painting of a Girl with one of these pieces of jewelry.

ANSWER: a **pearl earring** (prompt on partial answer or synonyms)

[10] This 20th century artist's painting of an egg strumming a lute was inspired by Vermeer. He also featured a tree with an ear and a black cat bursting out of a barrel in his *The Tilled Field*.

ANSWER: Joan **Miró**

16. One section of this work asks "Is there a teleological suspension of the ethical?" For 10 points each:

[10] Name this philosophical work that closely examines Abraham's attempted sacrifice of Isaac and explores the feeling of anxiety.

ANSWER: **Fear and Trembling**

[10] *Fear and Trembling* is a work by this Danish philosopher of *The Sickness Unto Death* and *Either/Or*.

ANSWER: Søren Aabye **Kierkegaard**

[10] This is the stage before the Knight of Faith. This figure is willing to give up what he loves but is unable to believe that he will still ultimately receive it.

ANSWER: "knight of **infinite resignation**"

17. This author wrote about a nameless town being invaded by a Nazi-like army in *The Moon is Down*. For 10 points each:

[10] Name this author who also wrote a novel that ends with Rose of Sharon breastfeeding a dying man, *The Grapes of Wrath*.

ANSWER: John **Steinbeck**

[10] Steinbeck's novel *Of Mice and Men* centers on two migrant workers who dream of settling down on a farm. Name *either* of them.

ANSWER: **George** Milton or **Lenny** Small (or George **Milton** or Lenny **Small**)

[10] Shortly before George shoots him to save him from a lynch mob, Lenny hallucinates about a giant one of these animals and giggles as he thinks about getting to tend these animals on their farm.

ANSWER: **rabbits**

18. Name these elements that are commonly used in catalysts. For 10 points each:

[10] This element is used to catalyze the rearrangement of allylic acetates. This yellow, valuable metal is often used in jewelry and is often confused with pyrite.

ANSWER: gold (or Au)

[10] This element is often used in carbon–carbon bond forming reactions like the Heck reaction and Suzuki coupling. This metal is also found in Lindlar’s catalyst.

ANSWER: palladium (or Pd)

[10] Palladium is in a group of metals named for this other metal, whose “black” form is found in many catalysts, including Adams’ catalyst and in most catalytic converters. This incredibly valuable metal is also used in standards for measurement.

ANSWER: platinum (or Pt)

19. Name some things about the Roman emperor Aurelian. For 10 points each:

[10] Aurelian initiated the construction of these fortifications, which were built around a similar structure made of tufa named for Servius Tullius. One of these structures in Britain was named for Hadrian.

ANSWER: walls

[10] Aurelian defeated an empire led by Tetricus named for this region. Earlier, Julius Caesar had written a “commentary” on a war he won in this region.

ANSWER: Gaul [or Gallic Empire]

[10] Aurelian’s troops crushed this empire at the Battle of Immae. Its most famous leader was the queen Zenobia.

ANSWER: Palmyrene Empire (or Palmyra)

20. Answer the following about deserts in the Middle East and Africa. For 10 points each:

[10] The canyon of Ein Avdat lies in this desert, which is the largest in Israel and covers most of the southern part of the country.

ANSWER: Negev Desert

[10] This desert, a subsection of the larger Arabian Desert, covers southern Saudi Arabia, Oman, Yemen, and the United Arab Emirates. It is the largest sand desert in the world.

ANSWER: Empty Quarter (or Rub’ al Khali)

[10] This hottest desert in the world covers most of North Africa and is bounded by the Sahel to the south. It is really, really big and the largest desert in Africa.

ANSWER: Sahara Desert