Tournament 17
Round 8

1. One action done by this group evolved from the Bojinka plot in the Philippines. This group targeted two embassies in East Africa prior to attacking a docked naval destroyer in Yemen. These masterminds of the U.S.S. Cole bombing selected (*) Khalid Shaikh Mohammed and Mohamed Atta to carry out four simultaneous attacks, two of which involved Flight 93 and the Pentagon. For 10 points, name this organization behind the 9/11 attacks led by Osama bin-Laden.
ANSWER: al-Qaeda
020-11-29-08102
2. One building of this type is known for the series of diagonal trusses at its base that help it withstand earthquake damage, and was designed by William Pereira. Another building of this type has levels composed of a talud and a tablero, the latter of which depicts carved heads of a Feathered Serpent. Other buildings of this type include the (*) "step" ones built by Imhotep and the main part of the Luxor Las Vegas. For 10 points, name these buildings that have triangular walls converging to a single apex, examples of which include "Great" ones at Giza.
ANSWER: pyramids
3. Among this author's characters are Charles Morel, a talented violinist; a landscape artist named Elstir; and Vinteuil (VAN-tuy), a composer who writes a successful sonata. He also described the marriage between Madame Verdurin and the Prince of Guermantes (GER-mont). Those characters all appear in a series of works whose first entry is about (*) Odette de Crecy (CRESS-ee) and Charles Swann; that first entry is named Swann's Way. For 10 points, name this French author of the seven-volume Remembrance of Things Past.
ANSWER: Marcel Proust
4. This figure has a dialogue with the giant Vafprudnir (VAF-prude-neer) in the Vafprudnismal (VAF-prude-nees-mall). He disguised himself as a stranger to test the generosity of Grimnir. This mythological figure sacrificed an eye for the water of Mimisbrunnr (MEE-mees-broon). This god's son Vidar will avenge this figure's death at the hands of the Fenris wolf. This husband of (*) Frigg was the father of Balder. For 10 points, name this chief god of Norse mythology.
ANSWER: Odin [or Wotan; or Woden]
5. This interaction is described by an extension of the GIM mechanism, the CKM matrix, and an experiment by Chien-Shiung Wu showed that this interaction violates parity. It is mediated by heavy (*) W and Z bosons and is capable of changing flavor, and one property of this interaction was posited by Glashow, Salam, and Weinberg. That property is this force's interaction with the electromagnetic force. For 10 points, name this physical force that is not as powerful as the strong force.
ANSWER: weak force [or weak interaction]
6. This poem compares wispy clouds to the "bright hair uplifted from the head / of some fierce Maenad." In this work, written in Dante's terza rima, the poet asks the title entity to "quicken a new birth" by driving his "death thoughts across the universe." The title force of this poem is the "breath of autumn's being." At the end of this poem, the speaker asks, (*) "If Winter comes, can Spring be far behind?" For 10 points, name this poem about a certain weather phenomenon written by Percy Shelley. ANSWER: "Ode to the West Wind"
7. This ruler was in power during an uprising in the Kazan region known as Pugachev's Rebellion. This ruler led a coup against Peter III and was in power during all three partitions of Poland. One advisor to this ruler supposedly ordered the construction of fake (*) villages to impress her during a national tour. This ruler was advised by Grigory Potemkin and embraced the writings of such men as Denis Diderot and Voltaire. For 10 points, name this enlightened empress of Russia.
ANSWER: Catherine II of Russia [or Catherine the Great; or Yekaterina Alekseyevna; or Yekaterina Velikaya; prompt on Catherine; prompt on Yekaterina]

064-11-29-08108
8. This material was used by Leone Leoni for his depictions of Charles V and Philip II. This material is gilded in depicting the sacrifice of Isaac in a series of doors constructed by Ghiberti after winning a competition. This material was used in Falconet's sculpture of Peter the Great and in a depiction of Erasmo da Narni nicknamed (*) Gattamelata. This material was also used for the first modern free standing nude. For 10 points, name this alloy of copper and tin used in Donatello's David.
ANSWER: bronze
9. This sports team plays their home games at an arena named after the boxer nicknamed the "Brown Bomber," Joe Louis. As of January 11, 2011, currently injured members of this team include Dan Cleary and the goalie Chris Osgood, who has won over 400 games. Former players for it include Gordie Howe and longtime captain (*) Steve Yzerman ("EYE"-zer-man), while current players include Nicklas Lidström (LEED-strum) and Pavel Datsyuk (DAHT-shook). Fans of this team throw octopi onto the ice at home playoff games. For 10 points, name this NHL team from Detroit.
ANSWER: Detroit Red Wings [or Detroit Red Wings before "Detroit" is read]
083-11-29-08110
10. One character in this play recalls an argument he had with Mose Porter about the difference between Anarchists and Socialists. Another character, nicknamed the "old Foolosopher," notes that the play's setting is the 'Bedrock Bar, The End of the Line Cafe...the last harbor.' Joe Mott and Larry Slade are among those gathered for drinks at $\mathbf{(}^{*}$ ) Harry Hope's saloon, waiting for Theodore Hickman, nicknamed "Hickey," to show up. For 10 points, name this Eugene O'Neill play about disillusioned drunks holding on to their "pipe dreams."
ANSWER: The Iceman Cometh
11. The Treaty of Fort Stanwix involved acquisition of land south of this river. In the late 1700 's, this river was the southern boundary of the Northwest Territory. The mouth of this river is located in Cairo, Illinois and this river flows through such cities as Wheeling and Evansville. The (*) Wabash is one of the largest tributaries of this river. In the heart of Pittsburgh, this river is formed by the joining of the Monongahela and Allegheny rivers. For 10 points, name this river which as its name suggests forms the southern border of a state with capital at Columbus.
ANSWER: Ohio River
12. This compound is produced in a process that uses Glover towers to remove nitrogen oxide called the lead chamber process. This compound and a gas that generates it are found in a solution called oleum, which is formed with a vanadium pentoxide catalyst in the contact process. Also called "oil of vitriol," it is a major component of car batteries, Venus's atmosphere, and $\left({ }^{*}\right)$ acid rain. For 10 points, name this acid with formula $\mathrm{H}_{2} \mathrm{SO}_{4}$.
ANSWER: sulfuric acid [or oil of vitriol it is read; or $\mathbf{H}_{\mathbf{2}} \underline{S O}_{\mathbf{4}}$ before it is read]
079-11-29-08113
13. In a Memorial Day address, this man stated that 'through our great good fortune, in our youth our hearts were touched with fire," which referred to his Civil War service. He wrote that 'the Fourteenth Amendment does not enact Mr. Herbert Spencer's Social Statics" in his dissent in the case of Lochner v. New York. This author of (*) The Common Law wrote the majority opinion in the case of Schenck v. United States. For 10 points, name this Supreme Court justice who created the "clear and present danger" test for limiting free speech.
ANSWER: Oliver Wendell Holmes, Jr.
030-11-29-08114
14. This Greek deity is frequently referred to as Kore (KOR-ay). The attempt by Pirithous (PEER-ith-oos) and Thesus to marry this woman led to their feet being coiled with snakes. One incident involving this woman led to the creation of the Sirens; that incident started with this woman picking flowers on the plain of Enna. This woman's consumption of (*) pomegranate seeds bound her to her captor for one third of each year, explaining the origins of winter. For 10 points, name this woman abducted by Hades and made Queen of the underworld, the daughter of Demeter.
ANSWER: Persephone
064-11-29-08115
15. The most common species of this disease is vivax, while the deadliest is falciparum. The sporozites of this disease become schizonts, which become merozites, which destroy red blood cells. Artemisinin (AR-tuh-MIS-uh-nin) has replaced (*) quinine (KWHY-nine) as the preferred drug to treat this disease, which is characterized by recurrent fevers. Caused by Plasmodium protozoa, it is prevented by spraying DDT and hanging nets around beds. For 10 points, name this disease spread by mosquitoes. ANSWER: malaria

079-11-29-08116
16. One author from this country wrote about a criminal whose climb to heaven is ended when he refuses to let others follow behind him on the title object. This home to the author of "The Spider's Thread" had an author write about a group of children confined to a plague-stricken village. Another writer from this country wrote a work titled after a mechanical toy about (*) Toru Okada. For 10 points, name this nation home to Nip the Buds, Shoot the Kids and The Wind-Up Bird Chronicle authors Kenzaburo Oe and Haruki Murakami.
ANSWER: Japan [or Nihon-koku; or Nippon-koku]
081-11-29-08117
17. One drug used to treat this condition is Clozapine, which is combined with estradiol in treatments for postmenopausal women with this condition. One type of this disease is the hebephrenic type, and the catatonic type of this disease leads to sufferers becoming nearly immobile. Sufferers of this disorder frequently ${ }^{(*)}$ hallucinate and have delusions of grandeur. For 10 points, name this mental disease which can come in a "paranoid" type and whose sufferers will often talk out loud to themselves. ANSWER: schizophrenia
18. The Oddi Chapel contains this man's Coronation of the Virgin. This artist showed a kneeling Saint Jerome and Mary Magdalene before the cross in his Mond Crucifixion. Another of his works shows John the Baptist and Jesus Christ as infants holding a bird. This artist of the Madonna of the Goldfinch painted his La Disputa in the Stanza della segnatura, a room which also contains a work where (*) Plato and Aristotle are surrounded by other ancient Greek scholars. For 10 points, name this artist of The School of Athens.
ANSWER: Raphael Sanzio [or Raphael Sanzio]
19. In electrostatics, this quantity is defined as the work necessary to move one charge an infinite distance away from a nearby charge. In mechanics, one type of this quantity is equal to one half times a spring constant times the square of the distance from equilibrium. Another type of this quantity is the "gravitational" type, and is equal to the mass times the (*) acceleration due to gravity times the height at which an object is located. For 10 points, name this type of energy which is stored in a system due to its configuration or position.
ANSWER: potential energy [or potential after "energy" is read]
084-11-29-08120
20. This man was defeated by 999 votes by Henry S. Foote for the Mississippi governorship after returning from a foot wound at the Battle of Buena Vista. He negotiated the Gadsden Purchase as Franklin Pierce's Secretary of War. His Secretary of State was Judah Benjamin. This man, who was (*) captured in Irwinville, Georgia, removed his first Commander-in-Chief of his Army in favor of Robert E. Lee. For 10 points, name this President of the Confederate States of America.

ANSWER: Jefferson Davis
21. Pieces depicting this phenomenon include a thirteen-movement piano "catalogue" of them and the third movement of Quartet for the End of Time by Olivier Messaien. A specific gramophone recording of this is heard in the third movement of a piece whose sections evoke the Janiculum and Appian Way, Ottorino Respighi's Pines of Rome. (*) For 10 points, name this natural musical phenomenon also found in works like Vaughan Williams' The Lark Ascending and Frederic Delius' On Hearing The First Cuckoo In Spring.
ANSWER: birdsong [accept specific birds]
082-11-29-08122
22. One type of this field, arising from a problem proposed by Johann Bernoulli (ber-NOO-lee), is the one 'of variations." This field solves Zeno's dichotomy paradox by showing that the distances traveled are equivalent to a convergent series, as an infinite number of those distances can be summed to equal a non-infinite number by use of the (*) integral. That function, along with the derivative, is in the realm of, for 10 points, what branch of mathematics invented independently by Newton and Leibniz (LIBE-nitz)?
ANSWER: calculus
23. In one poem, this author wrote that the value of the subject's love was worth 'more than whole mines of gold or all the riches that the East doth hold." Another work by this poet looks at a place where once "lay that store" the poet "counted best," which now (*) "in ashes lie." She wrote that poem after her house caught fire. For 10 points, name this early American female poet of "To My Dear and Loving Husband" and "Verses Upon the Burning of Our House" who had her works published in The Tenth Muse Lately Sprung Up in America.
ANSWER: Anne Bradstreet

1. This sculptor commemorated the siege of Almadén with his Mercury Fountain. For 10 points each: [10] Name this American sculptor of Lobster Trap and Fish Tail.
ANSWER: Alexander Calder
[10] These Calder sculptures, unlike his stabiles, are composed of a series of pieces, which rotate freely around a connecting string.
ANSWER: mobiles
[10] The word "mobile" was coined by this French artist, better known as the Dada artist of LHOOQ and Fountain.
ANSWER: Marcel Duchamp
2. This geologic formation of Devonian origin is primarily found in the northern Appalachians, underlying most of Pennsylvania and the Southern Tier. For 10 points each:
[10] Name this shale formation known to possess sizable reserves of natural gas.
ANSWER: Marcellus shale
[10] Natural gas from the Marcellus Shale is extracted through this controversial process where water, salt, and chemical surfactants are injected into the rock to break it up.
ANSWER: hydrofracking
[10] This city opposes development of the Marcellus Shale because it is concerned about the quality of its drinking water, taken unfiltered from the Catskills. Its mayor is Michael Bloomberg.
ANSWER: New York City
082-11-29-08202
3. The principal vitamins which fall under this category of molecules are Vitamins C and E and beta-carotene. For 10 points each:
[10] Name these molecules that remove free radical intermediates by being oxidized.
ANSWER: antioxidants
[10] This compound is the antioxidant present in the highest concentrations in human blood. It is secreted in the urine of birds and reptiles.
ANSWER: uric acid
[10] Excessive amounts of uric acid in the blood result in its crystallization and deposition in joints and tendons, which leads to this disease.
ANSWER: gout
4. This is equal to one minus the ratio of heat out to heat in. For 10 points each:
[10] Name this quantity describing an engine in thermodynamics that has a value between zero and one. ANSWER: thermal efficiency
[10] This is heat engine cycle developed by a namesake French engineer is the most efficient known. It consists of expansions and compressions while keeping certain quantities like temperature constant.
ANSWER: Carnot cycle [or Carnot engine]
[10] Two of the steps in the Carnot cycle have this property where there is no heat flow. During these steps P times V to the gamma is constant.
ANSWER: adiabatic
5. The dissent in this case criticized the Court because it "reached out" to overturn Wolf v. Colorado. For 10 points each:
[10] Name this Supreme Court decision that invoked the "fruit of the poisonous tree" doctrine in declaring that evidence obtained without a search warrant is not admissible in court.
ANSWER: Mapp v. Ohio
[10] Mapp v. Ohio found that obtaining such evidence violated this amendment in the Bill of Rights that prohibits "unreasonable search and seizure."
ANSWER: Fourth Amendment
[10] Dollree Mapp was arrested after police found this material in her apartment. A three-pronged test for it was established by Miller v. California, and Justice Potter Stewart once said, "I'll know it when I see it."
ANSWER: pornography [or obscenity; accept obvious equivalents]
079-11-29-08205
6. In 2007, a controversial election put Kurbanguly Berdymukhamedov in power in this country. For 10 points each:
[10] Name this former Soviet republic, which, prior to 2007, was led by an eccentric man who wrote an epic about himself and built a golden statue of himself that always faced the sun.
ANSWER: Turkmenistan
[10] This man was the dictator of Turkmenistan from its independence to his 2006 death. He took the name "Turkmenbashi" and renamed the months of the year after his relatives.
ANSWER: Saparmurat Niyazov
[10] Among the dignitaries who attended Niyazov's funeral was Manouchehr Mottaki, then the foreign minister for this country, which is governed by such institutions as the Guardian Council, Assembly of Experts, and Supreme Leader.
ANSWER: Islamic Republic of Iran [or Jomhuri-ye Eslami-ye Iran]
019-11-29-08206
7. The minstrel Blind Harry told many stories of this man, who led a group that killed an English sheriff in 1297 in Lanark. For 10 points each:
[10] Name this Scottish hero who was defeated at Falkirk in 1298 and executed in 1305 in London. ANSWER: William Wallace
[10] This man was king of England during Wallace's rebellion. He called the Model Parliament in 1295.
ANSWER: Edward I of England [or Edward Longshanks; prompt on Edward]
[10] This man became King of Scots after killing John "the Red" Comyn in 1306. He led Scottish forces to victory at Bannockburn in 1314.
ANSWER: Robert I of Scotland [or Robert the Bruce; prompt on Robert]
030-11-29-08207
8. For 10 points each, answer these questions trades made just before the 2011 NBA trade deadline.
[10] In a blockbuster move, Carmelo Anthony and Chauncey Billups were sent to this Eastern Conference that plays in Madison Square Garden.
ANSWER: New York Knickerbockers (accept either)
[10] In another deal, the Utah Jazz sent this All Star point guard to the Nets for Devin Harris, Derrick Favors and two draft picks.
ANSWER: Deron Williams
[10] A day after the Williams trade, the Boston Celtics traded away Nate Robinson and this center to the Oklahoma City Thunder for Jeff Green, Nenad Krstic, and a draft pick.
ANSWER: Kendrick Perkins
9. One clash in this country saw an uprising by students against a decree mandating curriculum instruction in Afrikaans and English. For 10 points each:
[10] Name this country that saw legalized discrimination under its apartheid system result in violence such as the aforementioned Soweto uprising.
ANSWER: Republic of South Africa
[10] An earlier chapter in South Africa's history saw these two wars fought between the British and the namesake Dutch republics.
ANSWER: Boer Wars
[10] The siege of this town by the Boers was a pivotal action of the Second Boer War. This siege was lifted by the arrival of a force co-lead by Lord Roberts, and was a Boer failure similar to the nearby siege of Kimberly.
ANSWER: Seige of Mafeking
081-11-29-08209
10. Identify the following about William Faulkner's short stories, for 10 points each.
[10] With the help of Boon Hoggenbeck and his dog Lion, Ike McCaslin hunts down this kind of powerful animal named Old Ben in one story.
ANSWER: a bear [or "The Bear"]
[10] In this story, the title Southern lady begins a relationship with and then poisons the Northerner Homer Barron.
ANSWER: "A Rose for Emily"
[10] Young Sarty alerts Major de Spain about his father Abner's plan to commit the title act of arson in this story.
ANSWER: "Barn Burning"
020-11-29-08210
11. It lies in the Amazonis and Tharsis quadrangles and formed during the Amazonian Period. For 10 points each:
[10] Name this Martian volcano, the largest mountain in the Solar System.
ANSWER: Olympus Mons
[10] Another feature of Martian geography, the so-called "face on Mars" in the region of Cydonia, was originally spotted by this first spacecraft to successfully land on Mars.
ANSWER: Viking 1 (prompt on "Viking")
[10] Phobos, the largest moon of Mars, has this large crater named for the wife of Asaph Hall.
ANSWER: Stickney Crater
081-11-29-08211
12. This man disguises himself as a gypsy woman and enters his own home to tell the fortune of a woman he will eventually marry. For 10 points each:
[10] Name this man who becomes blinded after the collapse of his estate, Thornfield Hall.
ANSWER: Mr. Edmund Rochester (accept either name)
[10] Mr. Rochester eventually marries this protagonist of the Charlotte Bronte novel in which he appears.
This woman befriends Helen Burns at Lowood School and had a traumatic childhood experience in the "red room."
ANSWER: Jane Eyre (accept either)
[10] This deranged first wife of Mr. Rochester is tended by Grace Poole but ultimately burns down Thornfield. The contemporary novel Wide Sargasso Sea depicts this character's Caribbean life as Antoinette Cosway.
ANSWER: Bertha Mason (accept either)
13. This series' atomic radius decreases with atomic number in their namesake "contraction." For 10 points each:
[10] Name this series of elements, almost all of which have partially filled 4f electron orbitals.
ANSWER: lanthanides [or lanthanoids]
[10] Along with two other metals, including yttrium, lanthanides are part of this other collection of elements named for the relative scarcity of minerals from which they were originally extracted.
ANSWER: rare earth elements [or rare earth metals]
[10] Name the other rare earth element, found in many of the same minerals as yttrium and the lanthanides. It is a transition metal whose most common use is to improve the strength of aluminum alloys.
ANSWER: scandium [or $\underline{\mathbf{S c} \text { ] }}$
001-11-29-08213
14. One side in this battle had its defenses organized by Nicholas, the Count of Salm. For 10 points each: [10] Name this unsuccessful 1529 siege of a European capital which marked the farthest advance into Europe of the Ottoman Empire.
ANSWER: Siege of Vienna
[10] The Siege of Vienna was attempted by this Ottoman Sultan and successor of Selim the Grim, whose rule proved to be the zenith of the empire.
ANSWER: Suleiman I [or Suleiman the Magnificent; or Suleiman the Lawgiver; or Suleiman Kanuni; prompt on Suleiman]
[10] Suleiman's greatest victory may have occurred three years earlier when he defeated the forces of this country under King Louis II at Mohacs.
ANSWER: Republic of Hungary [or Magyarorszag; or Magyar Koztarsasag]
15. This artist created many paintings of haystacks. For 10 points each:
[10] Name this artist whose painting Impression, Sunrise gave its name to the Impressionist movement.
ANSWER: Oscar Claude Monet
[10] Monet painted more than two hundred depictions of this type of flower, several of which are housed at L'Orangerie.
ANSWER: water lilies [or Nympheas]
[10] A number of Monet's paintings are housed in this art museum located in Grant Park, which is famous for its collections of Impressionist and Post-Impressionist paintings.
ANSWER: Art Institute of Chicago
16. This author died while performing the title role of his play The Imaginary Invalid. For 10 points each: [10] Name this French playwright who wrote about a religious hypocrite in Tartuffe.
ANSWER: Moliere [or Jean-Baptiste Poquelin]
[10] The title character of this play, Alceste, falls in love with Celimene who refuses to escape humanity by going into exile with him.
ANSWER: The Misanthrope [or Le Misanthrope ou l'Atrabilaire amoureux]
[10] Moliere was inspired by Tirso de Molina to write this play in which the title character and his servant Sganarelle encounter the living statue of the Commandant.
ANSWER: Dom Juan ou le Festin de pierre [or Don Juan]
17. This thinker posited a theory of emotion in his text The Passions of the Soul. For 10 points each: [10] Name this French philosopher who wrote "I think therefore I am" in Discourse of Method.

## ANSWER: René Descartes

[10] Descartes posited the separation of the mental and the physical as this concept which is sometimes named for him.
ANSWER: Cartesian dualism
[10] Descartes tweaked this argument, in which an imagined being of which nothing is greater proves the existence of an actual being of which nothing is greater.
ANSWER: ontological argument
015-11-29-08217
18. One of this figure's epithets is "the abode of beings," or Narayana. For 10 points each:
[10] Name this preserver god of the Hindu Trimurti.
ANSWER: Vishnu
[10] This avatar of Vishnu defeats the demon Ravana in a Hindu epic.
ANSWER: Ramachandra
[10] This monkey god, the son of Surya, aids Rama in the Ramayana.
ANSWER: Hanuman

080-11-29-08218
19. One character, Jewel, is the illegitimate child of Addie and Reverend Whitfield. For 10 points each: [10] Name this novel in which Vardaman declares, "My mother is a fish," while he and the rest of the Bundrens travel from Yoknapatawpha County to Jefferson to bury their mother Addie.
ANSWER: As I Lay Dying
[10] As I Lay Dying was written by this American author of The Sound and the Fury.
ANSWER: William Faulkner
[10] In this Faulkner novel, Thomas Sutpen establishes the Hundred plantation in Jefferson before he is killed by Wash Jones for impregnating Wash's granddaughter Milly.
ANSWER: Absalom, Absalom!
079-11-29-08219
20. This work begins with the title character prophesying a drought. For 10 points each:
[10] Name this oratorio, which depicts the title character defeating the priests of Baal in the "contest of the gods."
ANSWER: $\underline{\text { Elijah }}$
[10] Elijah was composed by this German Romantic, who also revived interest in the music of Bach. His other works include Incidental Music to a Midsummer Night's Dream.
ANSWER: Felix Mendelssohn
[10] This Mendelssohn work was inspired by his visit to Scotland. He wrote its opening phrase on a postcard to his family.
ANSWER: Hebrides Overture
21. This man's disdain for those around him led to his punishment by Nemesis. For 10 points each: [10] Name this hunter that became paralyzed after being smitten with his reflection in a pool of water. ANSWER: Narcissus
[10] This garrulous nymph was cursed by Hera to only repeat what others had already said. She fell in love with Narcissus but was unable to express her love.
ANSWER: Echo
[10] An alternate version of the story of Narcissus features the death of Narcissus in this manner. After being denied the armor of Achilles, Ajax the Greater dies in this manner.
ANSWER: suicide

