

Round 6 1st Section Toss-up Questions

Question #1: Literature – British Literature

10 points

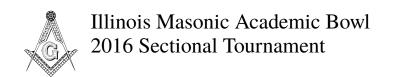
In one of this author's novels, a note reading "done	Thomas <u>Hardy</u>
because we are too menny" is left by Little Father Time	
to explain a murder-suicide. This author created a	
sailor who swore off alcohol for 21 years after he took	
five guineas as payment for his wife and daughter. One	
of his title characters worked at Talbothays Dairy as a	
milkmaid. That "pure woman", who was loved by	
Angel Clare, was executed for the murder of Alec.	
Name this author of Jude the Obscure, The Mayor of	
Casterbridge, and Tess of the d'Urbervilles.	

Question #2: Miscellaneous – Sports

10 points

In 2003, Maren Meinert sent this game into overtime, during which Nia Kunzer scored a golden goal. Norway appeared in the first two of these matches, losing the first to the U.S. and defeating Germany in the second. In one iteration of this game, Kristine Lilly's header kept the game scoreless, and after scoring the game-winning penalty kick Brandi Chastain removed her shirt in celebration. Name this quadrennial game, whose latest iteration saw Carli Lloyd score a hat trick as the USA beat Japan 5-2.

FIFA Women's World Cup
Final [accept
Championship or
equivalents for Final;
prompt on partial answers;
prompt on soccer or
association football]



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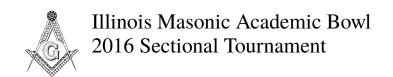
Question #3: Mathematics – Math Concepts

10 points

The product of two sums of these numbers equals the	perfect square s [or square
sum of two of these numbers according to the	numbers]
Brahmagupta-Fibonacci [brah-mah-GOOP-tah	
fih-boh-NAH-chee] identity. The sum of any two	
consecutive triangular numbers must be one of these	
numbers. The <i>n</i> th value of these numbers equals the	
previous value plus $2n$ minus one, which is a reason	
that these numbers are generated by adding consecutive	
odd numbers starting from 1. A set of these numbers in	
which one of them is the sum of the other two is a	
Pythagorean triple. Name these numbers such as 1, 4,	
9, 16, and 25.	

Question #4: Social Studies – World History

Gyrth unsuccessfully argued for a delay prior to this	Battle of Hastings
battle, during which he was killed along with his	
brother Leofwine [lee-ohv-"wine"]. The winning side	
at this battle planned for a landing on the Isle of Wight,	
but came ashore at Pevensey instead. The losing side's	
forces mostly consisted of fyrd and housecarls, and its	
commander was killed at Senlac Hill by an arrow to the	
eye, which was depicted on the Bayeux ["by-you"]	
Tapestry. This battle occurred early in the Norman	
conquest of England. Name this 1066 battle won by	
William of Normandy.	



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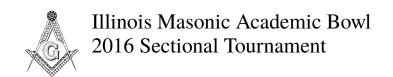
Question #5: Science – Biology

10 points

The kinetic properties of these substances are shown on	enzymes [prompt on
a Lineweaver-Burk plot and are modeled by the	<u>catalyst</u> s]
Michaelis-Menten [mih-KAY-liss MEN-tin] equation.	
The induced-fit model describes these proteins, having	
superseded the lock-and-key model of how substrates	
["SUB-straights"] bind to their active sites. Their	
names often end in "ase", as in reductase	
[ree-DUK-tayss]. Name these proteins that act as	
biological catalysts.	

Question #6: Literature – U.S. Literature

The protagonist of this novel was chipping ice to cool	<u>Beloved</u>
the title character when a flashback caused her to attack	
Mr. Bodwin with the pick in her hand. Drawing on the	
Margaret Garner incident, much of this novel's action	
takes place at 124 Bluestone Road, the address for the	
Sweet Home plantation. In response to the	
schoolteacher's approach, the protagonist took a saw to	
the title character's throat to prevent her becoming a	
slave. Name this novel in which the escaped slave Sethe	
["SETH"-uh] kills the title child, and which was	
written by Toni Morrison.	



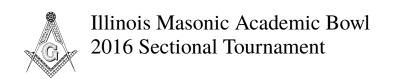
Question #7: Mathematics – Probability

10 points per part

	blems in this branch of probability often use a ical bar to mean "given that".	
1	Name this area of probability concerned with events that depend on other events.	<pre>conditional probability [prompt on posterior; prompt on but do not say Bayesian probability]</pre>
2	A prominent theorem in conditional probability is named for this 18th-century Englishman. This theory relates the probability of A given B , to the probability of B given A , using the separate probabilities of A and B .	Thomas <u>Bayes</u> [or <u>Bayes</u> '(s) <u>theorem</u>]
3	A person flips two fair coins, and at least one of the coins is a head. What is the probability that both of the coins are heads? The answer is not $\frac{1}{2}$.	1/3 [or 0.3 repeating]

Question #8: Mathematics – Probability

The	answer to this problem is generally given as 23	
peop	ple.	
1	Name this problem that asks how many people need to be in a room so that it's more likely than not that at least two of the people have a certain thing in common.	birthday problem [or birthday fallacy or similar answers]
2	Because of this "principle", the probability of at least two people having a common birthday equals one if the number of people is at least 367.	pigeonhole principle [or Dirichlet's box or Dirichlet's drawer principle]
3	If two people who were not born in a leap year are chosen at random, what is the probability that they share a birthday?	1/365



Question #9: Social Studies – Geography

10 points per part

Coe	ur d'Alene [kur duh-"LANE"] is the largest city in	
this	state's panhandle.	
1	Name this state separated from Montana by the	<u>Idaho</u>
	Bitterroot Mountains.	
2	Idaho borders six states and this Canadian province	British Columbia
	that contains Vancouver.	
3	The Snake River winds through this gorge on the	Hells Canyon
	border of Oregon and Idaho. This is the deepest	
	river gorge in the United States.	

Question #10: Social Studies – Geography

This	s trail passed by some of the oldest houses in the	
Unit	ted States, which are pueblos.	
1	Identify this trail named for its ending point, which	Santa Fe Trail
	is now the capital of New Mexico.	
2	Though the Santa Fe Trail had some different	Arkansas River
	routes, the mountain route followed much of this	
	river that goes through Pueblo, Colorado and	
	Wichita, Kansas.	
3	In the 1800s, the eastern terminus of the Santa Fe	<u>Missouri</u>
	trail was the city of Franklin in this state. The	
	Oregon Trail began at Independence in this same	
	state.	



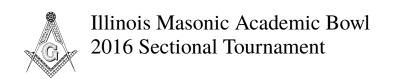
Question #11: Science – Physics

10 points per part

	s physicist's namesake equation can be written as osi ["sigh"] equals E psi".	
1	Identify this Austrian physicist, also the namesake of a thought experiment involving a cat that is both alive and dead.	Erwin (Rudolf Josef Alexander) <u>Schrödinger</u> [AIR-vin SHRAY-din-gur]
2	The Schrödinger equation is used to analyze the energies of this simple system, which consists of a particle in a small space with two impenetrable barriers around it	particle in a box [or infinite square well]
3	The "psi" in the Schrödinger equation is one of these "functions" that describe the quantum state of a particle.	wave functions

Question #12: Science – Physics

Phy	sics students usually assume that these objects are	
mas	sless and frictionless, and that the ropes going	
acro	oss them do not stretch at all.	
1	Name this simple machine consisting of a wheel	pulley (s)
	around which a rope or a cable is partly wound.	
2	This setup consists of multiple pulleys aligned on	block and tackle
	the same axle. It results in a great mechanical	
	advantage because the tension is distributed over	
	several loops of rope.	
3	A pulley is also used in this "machine", in which a	Atwood('s) machine
	rope with two different masses on each end is	
	passed over a pulley.	



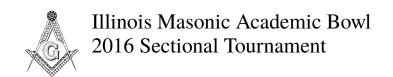
Question #13: Literature – World Literature

10 points per part

of th	the Sailor Who Fell From Grace with the Sea, one nese animals is smashed against a rock and then ected.	
1	Name this kind of animal, one of which drowns in a tub of goldfishes in a Thomas Gray poem.	(house) <u>cat</u> [or <u>kitten</u> ; or <u>Felis <u>silvestris</u> catus or <u>F</u>elis <u>catus</u>]</u>
2	This Japanese author of <i>The Sailor Who Fell from Grace with the Sea</i> included the koan "Nansen kills a kitten" in his novel <i>The Temple of the Golden Pavilion</i> .	Mishima Yukio [accept Kimitake Hiraoka; accept names in either order; prompt on Yukio]
3	Mishima performed this act after a failed attempt to overthrow the Japanese government.	suicide [accept or seppuku or hara-kiri; accept other answers referring to killing himself with a sword]

Question #14: Literature – World Literature

The	type of stanza named after this character uses	
iaml	bic tetrameter ["eye-AM"-bik tet-RAM-ih-tur].	
1	Name this fictional Russian character who rejected	Eugene Onegin [or Yevgeny
	the advances of Tatiana, only for Tatiana to reject	Onegin; accept any
	him after marrying Prince Gremin. This is the title	underlined name]
	character of a novel written in verse.	
2	Eugene Onegin was written by this poet. He wrote	Alexander (Sergeyevich)
	about an army officer who went insane after losing	<u>Pushkin</u>
	a fortune at cards in <i>The Queen of Spades</i> .	
3	As a result of his flirtations with Olga, Eugene	duels [prompt on fights or
	takes part in one of these events, which ends with	similar terms]
	the death of Vladimir Lensky.	



Round 6 3rd Section Toss-up Questions

Question #15: Social Studies – Economics

10 points

The Black-Scholes model finds this quantity for European put and call options. Market participants who cannot affect this concept are called "takers" of it. In the income effect, aggregate demand goes up while this value remains constant. This value's elasticity refers to a relative change in it with respect to a change in aggregate demand. Creating distinct markets for different groups of consumers allows for discrimination based on this concept. Name this economic quantity, the amount of money required to pay for a good or service.

price [accept cost]

Question #16: Science – Chemistry

10 points

Hammond's postulate says that a transition state's structure will resemble whichever of the reactants or products is closer to it in this value. One type of this quantity is equal to negative Boltzmann's constant times temperature times the natural log of the partition function, and is applicable to systems with constant volume and temperature. Another form of this quantity is equal to enthalpy minus temperature times entropy, and is used to determine whether or not a reaction is spontaneous. Name these quantities, which measure "usable" work, types of which are named for Helmholtz and Gibbs.

free energy [accept
Helmholtz free energy or
Gibbs free energy; prompt
on energy; prompt on Gibbs
function]



Round 6 3rd Section Toss-up Questions

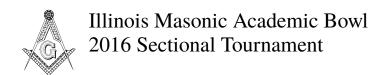
Question #17: Fine Arts – Classical Music & Opera

10 points

Ottorino Respighi [oh-toh-REE-noh res-PEE-gee] used	Gioachino (Antonio) Rossini
music from this composer for the ballet <i>The Fantastic</i>	
<i>Toyshop</i> . One of this composer's operas, based on a	
Voltaire novel, involves a love letter sent from	
Amenaide [ah-meh-nayd] to the title character,	
Tancredi. Near the beginning of another of this	
composer's operas, "Miei rampolli femminini [mee-AY	
rahm-POH-lee feh-mee-NEE-nee]" is sung by Don	
Magnifico [dohn mahn-YEE-fee-koh]. The title	
character in that opera, who forgives her family in the	
aria "Non più [pyoo] mesta", is based on Cinderella. In	
another opera by this composer, "Una voce poco fa	
[OO-nah VOH-chay POH-koh FAH]" is sung by	
Rosina. Name this Italian composer who wrote about	
Count Almaviva in <i>The Barber of Seville</i> .	

Question #18: Social Studies – U.S. History

In this battle's aftermath, Charles O'Hara's sword was	Battle (or Siege) of
accepted by Benjamin Lincoln. Robert Abercrombie's	Yorktown
spiking of cannons did little in this battle, while the	
capture of Redoubts Nine and Ten helped turn the tide.	
The Comte de Grasse's [kawmt day GRAHSS'z] defeat	
of Thomas Graves prevented a naval escape in this	
battle, and the losing side's band played the tune "The	
World Turned Upside Down" during the surrender.	
This battle was fought about 20 miles east of	
Williamsburg, Virginia, and it ended in October 1781.	
Name this Revolutionary War battle that culminated in	
Cornwallis's surrender.	



Round 6 3rd Section Toss-up Questions

Question #19: Literature – World Literature

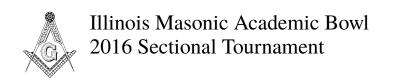
10 points

This author created characters who "live horizontally"	(P
sitting in lounge chairs. In a novel by this writer, the	[T
medical director Behrens is compared to Rhadamanthys	
[rad-uh-MAN-thiss]. In that novel by this author, Hans	
Castorp travels to a sanatorium and is infected by	
tuberculosis. In a novella by this author, the protagonist	
travels to Lido [LEE-doh] island and meets a beautiful	
Polish boy named Tadzio. Name this German novelist	
of The Magic Mountain who wrote about Gustav	
[GOO-staf] von Aschenbach in Death in Venice.	

(Paul) Thomas <u>Mann</u> [TOH-mahss MAHN]

Question #20: Science – Astronomy

A catalogue of these objects sorted by their spectra was	<u>star</u> s
researched by Edward Pickering and is named for	
Henry Draper. These objects were classified into five	
classes by Angelo Secchi [SEK-kee]. If their spectra	
lack hydrogen lines, these objects are classified as	
Wolf-Rayet. These are sorted by temperature using the	
Morgan-Keenan system, which uses the letters O, B, A,	
F, G, K, and M. These objects often evolve along the	
main sequence on the Hertzsprung-Russell diagram.	
Groups of them can appear to form patterns such as	
asterisms and constellations. Name these hot objects in	
the universe that produce light, one example of which is	
the Sun.	



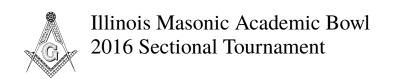
Question #21: Fine Arts – Art History

10 points per part

This artist beat out Filippo Brunelleschi		
[bro	o-neh-LESS-kee] for one prominent job but then	
lost	to him for another.	
1	Name this artist whose bronze doors were	Lorenzo Ghiberti
	nicknamed "the Gates of Paradise" by	[gee-BAIR-tee]
	Michelangelo.	
2	Brunelleschi's dome and Ghiberti's doors are in	Florence, Italy [or Firenze]
	this city, which is also the home of Michelangelo's	
	David.	
3	This 15th-century artist made several works for the	Fra Angelico [or Guido di
	Convent of San Marco in Florence, including the	Pietro or Fra Giovanni da
	fresco The Annunciation.	<u>Fiesole</u> or Fra Giovanni
		Angelico or il Beato
		Angelico]

Question #22: Fine Arts – Art History

	of several works by this painter showing horses is <i>Parade</i> , also known as <i>Race Horses in front of the</i>	
	unes.	
1	Name this French artist who also painted <i>Ballet Rehearsal</i> and <i>The Ballet Class</i> . He was sometimes classified as an Impressionist against his wishes.	Edgar <u>Degas</u> [day-gah] [or Hilaire-Germain-Edgar <u>Degas</u>]
2	Degas' trip to the United States led to his first successful painting, which shows a cotton office in this city.	New Orleans, Louisiana
3	Degas made a portrait of this American Impressionist who moved to France. Many of this artist's paintings showed a mother and child.	Mary <u>Cassatt</u>



Question #23: Social Studies – U.S. History

10 points per part

This	boat's captain ignored the recommendation from	
the Admiralty that it zigzag its path to avoid detection		
by U	J-boats.	
1	Name this British ocean liner that was sunk on May	RMS <i>Lusitania</i>
	7, 1915. The Germans cited the munitions it was	
	carrying as justification for the attack.	
2	The Lusitania was on its normal return voyage	New York City [accept
	from this American city to Liverpool when it was	NYC]
	attacked.	
3	In the aftermath of the sinking of the <i>Lusitania</i> ,	William Jennings Bryan
	this pacifist Secretary of State resigned.	

Question #24: Social Studies – U.S. History

Desi	igned to favor manufacturers in the Mid-Atlantic,	
this legislation raised duties on hemp, wool, and		
imp	orted textiles.	
1	Name this legislation intended to sink the	Tariff of 1828 or Tariff of
	presidency of John Quincy Adams. Henry Clay	Abominations
	proposed using some of the funds generated by it to	
	repopulate slaves overseas.	
2	In response to the passage of the Tariff of 1828,	John C(aldwell) Calhoun
	this vice president from South Carolina wrote that	
	states had the right to nullify federal laws.	
3	After South Carolina nullified the Tariff of 1828,	Force Bill [or Force Act]
	Congress reduced some of the tariffs in an 1832	
	bill but also passed this law that allowed for the use	
	of federal troops to collect tariff funds.	



Question #25: Science – Chemistry

10 points per part

This	s law states that pressure times volume equals the	
num	ber of moles of the substance times a constant	
time	es temperature.	
1	Name this law about a certain phase of matter. The	ideal gas law [accept
	van der Waals [van dur "walls"] equation adjusts	combined gas law]
	this law to account for intermolecular forces.	
2	The ideal gas law is obtained by combining	Boyle 's law
	Charles' law, Gay-Lussac's law, Avogadro's law,	
	and this law stating that at constant temperature	
	and for a fixed amount of a gas, pressure and	
	volume are inversely proportional.	
3	The ideal gas law and this theory of gases make the	kinetic-molecular theory (of
	same simplifying assumptions: molecular	gases)
	collisions are perfectly elastic, and individual	
	molecules have no volume.	

Question #26: Science – Chemistry

This	s theory was developed by Ronald Gillespie and	
Ron	ald Nyholm.	
1	Name this theory that predicts molecular structure based on the repulsion of electron pairs.	VSEPR [VES-pur] theory [or valence-shell electron pair repulsion theory]
2	Since water has two bonds and two lone pairs, VSEPR theory predicts that it will have this geometry.	<pre>bent geometry or bent shape [accept similar answers that contain bent]</pre>
3	Electron pairs and bonds are shown on "dot structures" named for this chemist, who also proposed a theory of acids and bases which defines them as electron-pair acceptors and donors.	Gilbert Newton Lewis



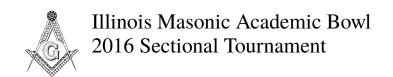
Question #27: Literature – U.S. Literature

10 points per part

Nea	r the end of this play's first act, one character	
ponders the vastness of the universe, thinking it is		
cont	tained "within the mind of God".	
1	Name this Thornton Wilder play narrated by the	Our Town
	Stage Manager.	
2	Members of these two families drive most of the play's action; they are bound together at the end of Act II upon the wedding of George and Emily.	Gibbs and Webb families [either order; accept variations like Gibbs and Webbs]
3	Our Town is set in this fictional New Hampshire town.	Grover's Corners [do not accept "Grover's Corner"]

Question #28: Literature – U.S. Literature

	nis story, Professor Baglioni [bal-YOH-nee] gives ientist medicine that kills him.	
1	Name this short story about a young woman who became poisonous due to her father's experiments.	"Rappaccini's Daughter"
2	Goodman Grey claimed that the title religious leader in this story had gone mad for donning a garment made of crepe [krape]. It was inspired by the career of Joseph Moody, who performed a similar action after killing a friend.	"The Minister's Black Veil"
3	"Rappaccini's Daughter" and "The Minister's Black Veil" were written by this author of <i>The Scarlet Letter</i> .	Nathaniel <u>Hawthorne</u> [or Nathaniel <u>Hathorne</u>]



Round 6 5th Section Toss-up Questions

Question #29: Mathematics – Math Concepts

10 points

Bézout's [beh-zoo'z] identity states that this value can be written as a linear combination of two given numbers. This operation on *A* and *B* is used to determine whether *A* times *X* plus *B* times *Y* equals *C* has integer solutions for *X* and *Y*. This value can be found by repeatedly replacing the larger of two numbers with the difference of the numbers, a procedure called the Euclidean [yoo-KLID-ee-un] algorithm. This value can also be found for two numbers by multiplying the numbers and dividing by their least common multiple. If this value for two numbers is equal to one, the numbers are called "relatively prime". Name this value, the largest that evenly divides two given numbers.

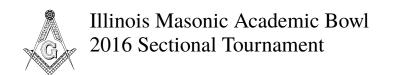
greatest common divisor
[or greatest common factor
or GCD or GCF or highest
common factor or hcf]

Question #30: Social Studies – World History

10 points

This leader defeated the Merkit tribe after it kidnapped his wife, Borte [BOR-tuh]. One of his shamans claimed that this man was the representative of the "Eternal Blue Sky". This ruler promulgated the Yasa law code and established a capital at Karakorum [kahr-uh-KOR-um]. During the ostracism following the death of his father Yesukhei [YEH-soo-kye], this leader killed his half-brother, Bekhter. This leader was succeeded by his son Ogedei [OE-guh-die]. Name this founder of the Mongol empire, the grandfather of Kublai Khan.

Genghis Khan [or Temujin or Chingis Khan; prompt on Khan]



Round 6 5th Section Toss-up Questions

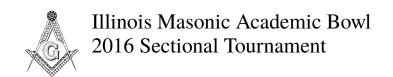
Question #31: Science – Physics

10 points

These devices generate both the pump and the probe	<u>laser</u> s
used in "pump-probe" techniques. Common gain	
media used in these devices include neodymium	
[nee-oh-"DIE"-mee-um]-doped Y.A.G. or a mixture of	
helium and neon. Pumping is used in these devices in	
order to achieve a state called population inversion,	
during which a photon is less likely to be absorbed and	
more likely to result in stimulated emission. Name	
these devices that produce a coherent, focused beam of	
light, which is often green or red.	

Question #32: Literature – British Literature

This writer ended the preface to a novel by stating "All	Oscar (Finghals O'Flahertie
art is quite useless." One of this author's title characters	Wills) <u>Wilde</u>
discovered a bank book with a lock that outlined	
payments to a woman later revealed to be her mother,	
Mrs. Erlynne [UR-lin]. Lord Darlington's interest in a	
married woman is for naught in this writer play Lady	
Windermere's Fan. His time in prison for	
homosexuality inspired his "Ballad of Reading Gaol	
[RED-ing "jail"]". Name this author who wrote about a	
painting that aged instead of the person it depicted in	
The Picture of Dorian Gray.	



Round 6 Extra Section Toss-up Questions

Extra Question #1: Fine Arts – Art History

10 points

One painting by this artist shows a young man with one shoe off kneeling away from the viewer and being hugged by his father. Another Biblically inspired work by this painter shows a shocked group looking at a hand that is writing vertical Hebrew words. In addition to *Return of the Prodigal Son* and *Belshazzar's Feast*, this artist made a painting showing a forearm muscle lesson, and one of a militia company led by Captain Frans Banning Cocq. Name this 17th-century Dutch painter of *The Anatomy Lesson of Dr. Nicolaes Tulp* and *The Night Watch*.

Rembrandt [or Rembrandt Harmenszoon **van Rijn**]

Extra Question #2: Mathematics – Math Concepts

10 points

Every natural number is the sum of at most nine whole numbers raised to this power. This is the fewest number of dimensions in which a random walk is not expected to return to the origin. When the chaos game has this many starting sides, it creates the Sierpinski [sir-PIN-skee] gasket. This number is the smallest possible degree of a polynomial whose graph has an inflection point. A polygon with this many sides must be convex and does not have any diagonals. Name this smallest *odd* prime number, equal to the degree of a cubic and the number of sides of a triangle.

3 [or third (power); accept perfect cubes or cubic functions/polynomials]



Round 6 Extra Section Toss-up Questions

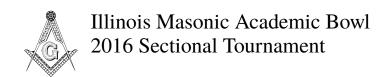
Extra Question #3: Literature – U.S. Literature

10 points

In one play by this author, Grandma tells Mrs. Barker	Edward (Franklin) Albee
about an adopted baby who was killed. In another play	
by this author, Peter holds the knife that Jerry uses to	
commit suicide. In the most famous play by this writer	
of The American Dream, one character announces that	
a porcupine caused a car accident that killed a man.	
That statement occurs during a game of "Bringing up	
Baby". The characters in that play by this author figure	
out that George and Martha's son is fictional. Name	
this author of The Zoo Story and Who's Afraid of	
Virginia Woolf?.	

Extra Question #4: Science – Physics

This kind of motion is represented by matrices in the	rotation [accept rotating;
group SO(3) [S-O "three"]. A disc undergoing this	accept spinning]
motion at relativistic speeds should appear to both	
contract and not contract according to Ehrenfest's	
paradox. When a system's Lagrangian	
[luh-GRAHN-zhee-un] is symmetric with respect to	
this process, Noether's [NOY-tur'z] theorem states	
angular momentum will be conserved. The analog of	
mass for this sort of motion is the moment of inertia.	
Name this type of motion that occurs around an axis in	
a wheel.	



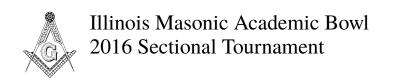
Round 6 Extra Section Toss-up Questions

Extra Question #5: Social Studies – U.S. History

10 points

At a conference in Albany, this groups ceded control of Ohio with the exception of the Wyoming and Susquehanna [sus-kweh-HAN-uh] Valleys. This group fought a French-backed enemy in the Beaver Wars. Bound together by the Great Law of Peace, this group was founded by Dekanawidah [duh-KAN-uh-WEE-duh] and Hiawatha. This group added the Tuscarora in 1722, changing one of their names from the Five Nations to the Six Nations. Name this amalgamation of Indian tribes in the northeast United States.

Iroquois Confederacy or Iroquois League [accept Haudenosaunee or People of the Long House; prompt on Iroquois, Five Nations, or Six Nations]



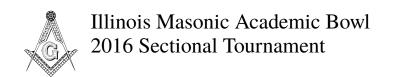
Extra Question #6: Literature – U.S. Literature

10 points per part

mar	ne poem, this writer described how "someones ried their everyones" and "one day anyone died i	
gue	ss."	
1	Name this poet who employed unconventional	E(dward) E(stlin)
	punctuation and capitalization in such poems as "Maggie and Milly and Molly and May".	Cummings
2	The title locale in this E. E. Cummings poem has "up so floating many bells down", which does not help the children who "are apt to forget to remember."	Anyone Lived in a Pretty How Town
3	In a Cummings poem about this character, who is "glad and big", the narrator indicates that unless "statistics lie", this figure was "more brave than me, more blonde than you."	Olaf [accept I Sing of Olaf Glad and Big]

Extra Question #7: Literature – U.S. Literature

This character started a school called Plumfield on an		
estate she inherited from an aunt, and ran it with her		
hust	oand, a professor from Germany.	
1	Name this character, called "my dear fellow" by	Josephine March [accept Jo
	Laurie, who worked as a governess for the Kirkes	Bhaer, prompt on March or
	in New York before meeting Fritz.	Bhaer]
		7
2	Jo March was the second-oldest sister in this	Louisa May <u>Alcott</u>
	author's novel Little Women.	
3	This eldest of the March sisters married John	Meg March [prompt on
	Brooke, Laurie's tutor. She gave birth to the twins	<u>March</u>]
	Daisy and Demi, and later had another daughter,	
	Josy.	



Extra Question #8: Mathematics - Geometry

10 points per part

This	s statement is equivalent to Playfair's axiom.	
1	Name this postulate stating that if a line intersects two lines, then the two intersected lines meet on the side where the angles formed with the one line total less than two right angles.	<pre>parallel postulate [or fifth postulate; accept, but do not otherwise reveal, Euclid's fifth postulate]</pre>
2	The parallel postulate was the fifth postulate stated in the geometry textbook <i>Elements</i> by this ancient Greek mathematician.	Euclid (of Alexandria)
3	Give the total measure of two right angles.	180 degrees or pi radians

Extra Question #9: Mathematics – Geometry

In th	nis kind of triangle, the square of the length of the	
longest side is greater than the sum of the squares of		
the other two sides.		
1	Name this kind of triangle that contains an angle	obtuse triangle(s)
	measuring between 90 and 180 degrees.	
2	Triangles with obtuse angles are either isosceles	scalene triangle
	["eye"-SAH-suh-lees] or this type of triangle,	
	which has three different side lengths.	
3	Find the length of the longest side of an isosceles	6 root 3 units [or 6 times the
	triangle if its vertex angle is 120 degrees, and each	square root of 3 or 6
	of the other sides is six units long.	radical 3 or equivalents]