

Round 6 1st Section Toss-up Questions

Question #1: Miscellaneous

10 points

An award established in this profession first went to Milton Brooks for his work Ford Strikers Riot. Soon after that, the award in this profession was given to Joe Rosenthal for his work during World War II. Much earlier, Roger Fenton did pioneering work in this profession during the Crimean War. The golden age of this profession took place after the development of the Leica ["LIKE-uh"] during the 1920s, which gave people more mobility. Some members of this profession brought attention to poor people, including John Thomson, Jacob Riis [reess], and Dorothea Lange [laynj]. Name this profession that has created works such as Jeff Widener's Tank Man and a portrait of Abraham Lincoln during the Civil War by Mathew Brady.

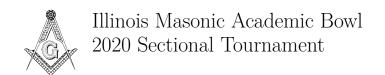
photojournalism or
photojournalist(s)
[accept (war)
photography or (war)
photographer(s); prompt
on journalism or
journalist(s)]

Question #2: Literature

10 points

This character says of the word "peace" that "I hate the word, as I hate hell." This character is called "good king of cats" after he asks, "What wouldst thou have with me?". At a feast, this character states "It fits, when such a villain is a guest: I'll not endure him." He says those words shortly after saying "Fetch me my rapier [RAY-pee-ur], boy." Shortly after this character kills another character and flees, he returns to the scene and states "Thou, wretched boy, that didst consort him here, shalt with him hence", leading to this character's death. Name this nephew of Lady Capulet who kills Mercutio [mair-KYOO-shee-oh] and is killed by Romeo in William Shakespeare's Romeo and Juliet.

Tybalt [TIB-ult]



Round 6 1st Section **Toss-up Questions**

Question #3: Science

10 points

This element was used in the Kucherov mercury [accept Hg] [KOO-chuh-rawff] reaction in the hydration of acetylene [uh-SEE-tuh-leen] before the use of palladium [puh-LAD-ee-um] chloride in the Wacker process. A combination of potassium, iodine, and this element is used to detect ammonia as Nessler's reagent. This element combines with sulfur to form the mineral cinnabar [SIN-uh-bar]. Overexposure to this element can cause Minamata disease, which is why the use of thiomersal ["thigh"-uh-MUR-sawl] in vaccines was controversial. Alloys of this element are often used by dentists for patients over 15 years old and are called amalgams. Name this element that was known as quicksilver and is the only metal that is liquid at room temperature.

Question #4: Social Studies

10 points

This country underwent a "coup by memorandum"	(Republic
in 1971, and Kenan Evren led a more traditional	Türkiye (
coup in it in 1980. Much of what is now this	
country was split up after World War I by the	
Treaty of Sèvres [sev-ruh], but the modern version	
of this country was created soon afterward by the	
Treaty of Lausanne [loh-ZAHN]. This country's first	
prime minister and second president was Ismet	
Inönü [in-uh-NOO], who fought for its	
independence against several countries, including	
Greece. This country invaded Cyprus in 1974 and	
is the only country that recognizes the Republic of	
Northern Cyprus. Name this country whose	
founder was Mustafa Kemal Atatürk.	

of) **Turkey** or (Cumhuriyeti)



Round 6 1st Section Toss-up Questions

Question #5: Mathematics

10 points

Girard's formula is used to find the areas of	sphere [accept ball before
triangles drawn on this shape's surface by relating	"equals"]
it to the "excess" of this shape. In the coordinate	
system named for this shape, the equation "rho	
equals a constant" generates this shape. This shape	
has the smallest surface area for a given volume. In	
Cartesian [kar-TEE-zhun] coordinates, the equation	
" x squared plus y squared plus z squared equals r	
squared" generates this shape. Name this	
three-dimensional analogue of a circle.	

Question #6: Literature

This god shared his name with the ruler of the	<u>Loki</u>
Utgard Castle. This god killed Fimafeng	
[FIM-ah-feng] after other gods complimented	
Fimafeng and Eldir; soon after that, this god	
insulted Bragi [BRAHG-ee] and Othin [OH-thin].	
This god turned Idunn [EE-dun] into a nut in order	
to rescue her from Thiazi in a story in which Thiazi	
takes the form of an eagle and this god takes the	
form of a falcon. This god and Heimdall	
[HYM-dahl] kill each other during Ragnarök. This	
god made an arrow or spear out of mistletoe to kill	
Baldr ["balder"]. This god is the father of Hel,	
Fenrir, and Jörmungandr [YOR-mun-gahn-dur] and	
the mother of Sleipnir [SLYP-neer]. Name this	
Norse trickster god.	



Question #7: Fine Arts

10 points per part

A n	nuseum formerly called the National Museum	
of A	American Art now has a name that makes its	
asso	ociation with this institution obvious.	
1	Name this institution that oversees several	Smithsonian Institution
	museums, many of which are on the National	
	Mall in Washington, D.C. Its largest museum is	
	the National Air and Space Museum.	
2	This artist's Only One is at the Smithsonian	Georgia (Totto) O'Keeffe
	American Art Museum. It is one of her works	
	inspired by the perspective of riding an	
	airplane, such as Sky Above the Clouds.	
3	The Smithsonian American Art Museum shares	National Portrait
	a building with this other part of the	<u>Gallery</u>
	Smithsonian Institution that displays works by	
	Gilbert Stuart and Shepard Fairey.	

Question #8: Fine Arts

One	of the first uses of motion pictures was by	, , ,
	1	
	weard Muybridge [Edward MOY-bridge] to	
dete	ermine whether all four feet of this animal were	
off t	the ground at the same time when it ran.	
1	Name this type of animal that is the defining	$\underline{\mathbf{horse}}(\mathbf{s})$
	characteristic of an equestrian statue.	
2	Étienne [et-yen] Maurice Falconet [fal-koh-nay]	bronze [prompt on
	used this material to make his equestrian statue	$\underline{\mathbf{copper}}$ or $\underline{\mathbf{metal}}$
	of Peter the Great in the Senate Square in	
	St. Petersburg.	
3	This American artist, who often portrayed	Frederic (Sackrider)
	cowboys and horses, made the sculpture <i>The</i>	Remington
	Bronco Buster.	



Question #9: Science

10 points per part

She	don Glashow [GLASH-"ow"], Abdus Salam,	
and	Steven Weinberg explained how to unify this	
forc	e with electromagnetism.	
1	Name this interaction that is responsible for	weak nuclear force or
	radioactive decay.	interaction [accept
		electro weak]
0	These two letters are used for the bosons	\mathbf{W} and \mathbf{Z} [either order]
2	These two letters are used for the bosons	<u>vv</u> and <u>z</u> [enther order]
2	[BOH-zahnz] that mediate the weak interaction.	<u>w</u> and <u>z</u> [either order]
3		neutral current
	[BOH-zahnz] that mediate the weak interaction.	
	[BOH-zahnz] that mediate the weak interaction. This exchange of Z bosons was discovered at	

Question #10: Science

The	re are six of these elementary particles,	
incl	uding the three neutrinos.	
1	Name this class of particles, one of which is the	<u>lepton</u> s
	electron.	
2	Neutrinos were first theorized to balance the	beta decay
	energy in this type of decay that either	
	produces an electron and an antineutrino	
	[pause] or a positron and a neutrino.	
3	Parity conservation states that changing the	<u>cobalt</u> -60
	signs of spatial coordinates does not change	
	outcomes. The lack of parity conservation was	
	demonstrated by the Wu experiment, which	
	measured the beta decay of this element.	



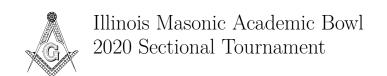
Question #11: Social Studies

10 points per part

The	northeast corner of this country contains a	
part	of Lagoon Mirim, which is mostly in Brazil.	
1	Name this country whose capital is Montevideo	(Oriental Republic of)
	[mohn-tay-vee-DAY-oh].	<u>Uruguay</u> [or (República
		Oriental del) <u>Uruguay</u>]
2	The combination of the Uruguay and the	Río de la Plata [or La
	Paraná Rivers forms this waterway south of	Plata River]
	Uruguay.	
3	This river flows across Uruguay. It is dammed	Río <u>Negro</u> [NAY-groh] or
	to form the Rincón del Bonete [reen-KOHN del	Negro River [prompt on
	boh-NAY-tay] Reservoir.	Black River]

Question #12: Social Studies

The	most populous inland city in this country is	
Tan	npere [TAHM-puh-ray].	
1	Name this country north of Estonia whose	(Republic of) Finland [or
	capital is Helsinki.	Suomi or Suomen
		(tasavalta)]
2	This gulf separates Finland from Sweden.	Gulf of Bothnia
		[BAHTH-nee-uh]
3	This is the northernmost region of Finland. Its	Lapland [or Sápmi or
	most populous city is Rovaniemi	<u>Lappi</u>]
	[roh-vah-nee-EH-mee].	



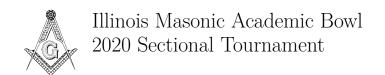
Question #13: Literature

10 points per part

Nan	ne these late-20th-century and	
earl	y-21st-century Canadian writers.	
1	This author wrote about the control of women	Margaret (Eleanor)
	in the Republic of Gilead [GIL-ee-ud] in The	$\underline{\mathbf{Atwood}}$
	Handmaid's Tale.	
2	This Canadian author wrote about visiting his	(Philip) Michael
	native home of Sri Lanka in Running in the	<u>Ondaatje</u>
	Family. One of his novels is titled The English	
	Patient but is about a Hungarian who has been	
	badly burned.	
3	This author explored gender roles in a story	Alice (Ann) Munro
	about a girl whose father was a fox farmer. In	[accept Alice Ann
	addition to "Boys and Girls", this author wrote	$\underline{\mathbf{Laidlaw}}$
	the story "Free Radicals" about Nita, who	-
	pretends to be Bett when a murderer is in her	
	house.	

Question #14: Literature

The	protagonist of this novella has written an	
"epi	c prose poem about the life of Frederick the	
Gre	at".	
1	Name this novella in which Gustav von	Death in Venice [or Der
	Aschenbach [AH-shen-bahk] becomes fascinated	$[Tod\ in\ Venedig]$
	with Tadzio.	
2	This German author wrote Death in Venice as	(Paul) Thomas Mann
	well as The Magic Mountain.	[toh-mahss mahn]
3	In The Magic Mountain, Hans Castorp leaves	<u>Davos</u> (-Platz, Grisons,
	Hamburg to visit his cousin in this city.	Switzerland)



Round 6 3rd Section Toss-up Questions

Question #15: Science

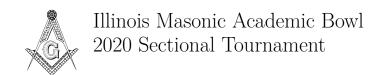
10 points

The quantity of these molecules is measured using luciferase ["Lucifer-ace"] and luminometers [loo-muh-NAH-muh-turz], which is done to determine whether surfaces are hygienic. 22 of these molecules are created by breaking up a ketone ["key-tone"] body. This molecule is used during primary active transport. The use of hexokinase ["hex"-oh-KY-nayss] breaks this molecule up at the beginning of glycolysis [gly-KAH-luh-siss], and the use of pyruvate kinase ["pie"-ROO-vayt KY-nayss] yields pyruvate and this molecule at the end of glycolysis [gly-KAH-luh-siss]. The electron transport chain forms a proton gradient that drives production of this molecule. Name this energy-carrying molecule used in all living cells that is produced in mitochondria "my-toe-CON"-dree-uh].

ATP [or adenosine <u>triphosphate</u>

Question #16: Social Studies

This person wrote the books It Changed My Life	Betty Friedan [or Bettye
and The Second Stage. In 1966, this person and	$\underline{\text{Goldstein}}$
Pauli Murray wrote the "Statement of Purpose" for	
an organization that this person became the first	
president of. Another book by this person was	
inspired by a survey of people who had graduated	
from Smith College 15 years earlier; that book	
describes "the problem that has no name". In 1970,	
this person organized the Women's Strike for	
Equality. Name this first leader of the National	
Organization for Women and author of <i>The</i>	
Feminine Mystique.	



Round 6 3rd Section Toss-up Questions

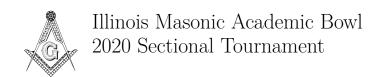
Question #17: Fine Arts

10 points

This composer showed his support for Shriners with	John Philip <u>Sousa</u>	
the song "Nobles of the Mystic Shrine". His general		
support of Freemasonry can be seen by his		
dedication of "The Thunderer" to a Knights		
Templar commander and his naming of another		
piece "The Crusader". In support of an essay		
contest, this composer wrote a piece called "The		
Washington Post". The last four U.S. presidential		
inaugurations have featured this composer's "The		
Liberty Bell". One of his compositions has a piccolo		
obbligato [ohb-lee-GAH-toh] that represents the		
southern part of the United States. Name this		
composer whose piece "The Stars and Stripes		
Forever" is the official national march of the United		
States.		

Question #18: Literature

The protagonist of this novel says "There's no	\underline{Catch} -22
patriotism, that's what it is. And no matriotism,	
either." That statement is made in response to a	
character in this novel who tries to increase his	
lifespan by cultivating boredom, Dunbar. Another	
character in this novel mentions "The syndicate I'd	
like to form someday so that I can give you men the	
good food you deserve". That character is Milo	
Minderbinder. This novel is set on the island of	
Pianosa [pee-ah-NOH-zah] during World War II	
and is about bombers such as Yossarian. Name this	
novel by Joseph Heller.	



Round 6 3rd Section Toss-up Questions

Question #19: Science

10 points

Some organisms that feed on this compound use the ribulose ["RYE"-byoo-lohss] mono phosphate cycle for formaldehyde assimilation. Those organisms often grow in rice paddies, where large amounts of this compound are produced naturally by the waterlogged soil. Bacteria in the guts of certain animals, including termites, produce this compound. Much of this compound exists inside a lattice of water molecules in clathrates [KLATH-"rates"] beneath sea beds and in permafrost. This compound, which is over 20 times more potent than carbon dioxide as a greenhouse gas, is the primary component of natural gas. Name this compound whose chemical formula is CH₄.

methane [accept CH₄ before the end]

Question #20: Social Studies

10 points

In Corfu, on the day before this holiday, people smash pots by throwing them out of windows. On this holiday in Florence, the archbishop lights a dove-shaped rocket that sets off the Explosion of the Cart. In the Eastern Orthodox Church, this holiday begins Bright Week, and it is not allowed to occur before the Jewish people celebrate Passover. Many Eastern Orthodox Church members call this holiday Pascha [PAH-skuh]. This holiday begins a 50-day period that ends with Pentecost. This holiday is just after Holy Week at the end of Lent. Name this holiday during which Christians celebrate the Resurrection.

Easter Sunday [accept Pascha before it is mentioned; accept Resurrection Sunday before "Resurrection"]



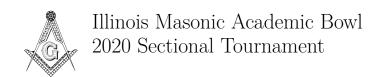
Question #21: Mathematics

10 points per part

For	a logarithmic function, this set is usually the	
posi	tive real numbers.	
1	Give this term for the set of possible values of	domain [do not accept or
	the input variable to a function. It is often	prompt on "codomain"]
	contrasted with the range.	
2	For this type of function, each element of the	one-to-one or injective
	domain corresponds to a different element of	function or inject ion
	the range. Functions with this property do not	
	need to be surjective, but they can be.	
3	Find the smallest positive value, in radians,	$\mathbf{pi/10}$ or $\mathbf{1/10}$ \mathbf{pi} [do not
	that cannot be in the domain of the function " f	accept or prompt on
	of x equals 2 plus the tangent of the quantity	partial answers]
	5x".	

Question #22: Mathematics

ardioid ["CARD"-ee-oyd] in this coordinate vstem.	
rstem.	
Name this coordinate system in which each polar c	oordinate system
point is specified using the distance from the or pola	<u>r</u> coordinates
origin and the angle with the positive half of	
the x-axis.	
In polar coordinates, graphing the equation " r lemnises	cate
squared equals the cosine of 2 theta" produces [LEM-n	uh-"skate"] of
this shape. Bernoul	li [prompt on
figure	<u>[48']</u>
Find the area enclosed in the graph of the polar 25 pi [6]	do not prompt on
equation " r equals 5". partial a	answers]



Question #23: Literature

10 points per part

At t	the beginning of this novel, the characters are	
upse	et because they are facing a giftless Christmas.	
1	Name this novel in which the protagonists are	$\underline{Little\ Women}$
	the daughters of a Union Army chaplain and a	
	person often referred to as "Marmee".	
2	In Little Women, Beth wants one of these	piano (s) [prompt on
	objects, which she eventually gets from	musical instrument s]
	Mr. Laurence.	
3	This author wrote Little Women.	Louisa May <u>Alcott</u>

Question #24: Literature

The	protagonist of this play asks "Why you got	
the	white mens driving and the colored lifting?".	
1	Name this play about the first	\underline{Fences}
	African-American truck driver in Pittsburgh,	
	whose name is Troy Maxson.	
2	In Fences, what type of instrument does Troy	trumpet [prompt on
	Maxson's brother play?	<u>horn</u>]
3	Name the playwright of <i>Fences</i> . It is one of his	August Wilson [or
	ten plays in a cycle set in Pittsburgh during	Frederick August Kittel
	each decade of the 20th century.	Jr.]



Question #25: Science

10 points per part

This	s principle states that the proportion of	
dom	ninant and recessive genes remains the same	
acro	oss generations.	
1	Identify this principle named for an English	Hardy-Weinberg
	mathematician and German doctor.	principle or law or
		equilibrium or theorem
2	The Hardy-Weinberg principle was designed for	<u>diploid</u> y
	organisms with this chromosome property,	
	meaning that each cell has two copies of each	
	chromosome—one from each parent.	
3	This effect, named for a Swedish geneticist,	Wahlund effect
	states that the number of heterozygous	
	organisms decreases over time because of	
	population subdivisions.	

Question #26: Science

Fem	ales have one of these in most of their cells,	
whil	e most males have none.	
1	Name these deactivated X chromosomes.	Barr body/ies
2	This RNA gene plays a major role in	Xist or X-inactive
	deactivating Barr bodies once this gene is	specific transcript
	spliced by coating the X chromosome.	
3	Xist is this type of RNA gene that is not	non-coding RNA or
	translated into proteins. Both tRNA and rRNA	<u>nc</u> RNA
	fit into this category.	



Question #27: Social Studies

10 points per part

This	s period lasted from about 1946 to 1990.	
1	Name this time during which there was tension	Cold War
	between the United States and Soviet Union,	
	but no full-scale fighting between them.	
2	This agreement—officially called the Treaty of	Warsaw Pact
	Friendship, Cooperation and Mutual	
	Assistance—was signed by the Soviet Union	
	and its allies in 1955 after West Germany	
	joined NATO.	
3	This American diplomat supported a policy of	George (Frost) Kennan
	containment towards the Soviet Union with his	
	"Long Telegram" and his anonymous article	
	The Sources of Soviet Conduct.	

Question #28: Social Studies

The	Second Bank of the United States was given a	
chai	rter from 1816 to 1836. When that time ended,	
it b	riefly became private before folding.	
1	In 1832, this president vetoed the bill to	Andrew <u>Jackson</u>
	re-charter the bank.	
2	The Second Bank of the U.S. was supported by	McCulloch v. Maryland
	this 1819 Supreme Court decision that	[prompt on Maryland]
	protected the bank from a state tax.	
3	The combination of the bank going private and	Specie Circular
	this Jackson executive order are blamed for the	
	Panic of 1837. This executive order required	
	public lands to be paid for with gold or silver.	



Round 6 5th Section Toss-up Questions

Question #29: Literature

10 points

This character is given the choice of running the gauntlet 36 times or having his brains blown out with a dozen musket-balls. When he is about to be killed, this character is pardoned by the king of the Bulgarians. This person then sees a beggar covered with scabs who turns out to be his former teacher, who claims to have picked up a disease from Pacquette [pak-ET]. This character ultimately decides that we should all "cultivate our garden". When he is young, this person is taught that he lives in the "best of all possible worlds". This character loves Cunégonde ["cue"-neh-gawnd] and is taught by Dr. Pangloss. Name this title character in a novel by Voltaire.

Candide [kan-deed]

Question #30: Mathematics

10 points

This value is in the denominator of each equation in Vieta's formulas to find roots. Factors of this number are the denominators in the rational root theorem. If a rational function has the same degree in the numerator and denominator, then the limit as x approaches infinity is the ratio of the two values of this quantity. If this quantity is positive, then the limit of a polynomial is positive infinity as x approaches infinity, though the limit as x approaches negative infinity depends on both this value and the polynomial degree. Name this number placed before the highest-degree term of a polynomial.

leading coefficient
[prompt on coefficient;
accept first coefficient;
before "highest-degree",
accept coefficient of the
highest-degree term or
coefficient of the
highest-order term]



Round 6 5th Section Toss-up Questions

Question #31: Social Studies

10 points

It is believed that this leader died just before the Šuppiluliumas [soop-uh-loo-lee-OO-muhz] attacked the Mitanni [mih-TAN-ee], so his army did not protect Tushratta [tush-RAH-tah], whom this leader and his father often corresponded with. This leader had six daughters by his primary wife, and he had many consorts, at least one of whom had a son who succeeded him. This leader's son moved the capital to Memphis a few decades after this leader moved it to what is now Amarna. This leader was the father of Tutankhamun [too-tahnk-HAH-mun] and husband of Nefertiti [neff-ur-TEE-tee]. Name this pharaoh who temporarily moved Egypt towards monotheism through his worship of Aten [AH-tun].

Akhenaten or
Amenhotep IV [prompt
on Amenhotep]

Question #32: Science

10 points

This quantity is not density, but the bulk modulus is defined as the opposite of this quantity times the rate of change of pressure with respect to this quantity. The amount this quantity changes is equal to 3 times this quantity times the linear coefficient of thermal expansion times the change in temperature. The amount of buoyant [BOY-unt] force is calculated by multiplying this quantity times density and gravitational field strength. Enthalpy equals a system's internal energy plus the product of its pressure and this quantity. The density of a 3D object equals its mass divided by this quantity. Name this quantity that can be measured in liters.

volume [accept displaced volume after "buoyant"]



Round 6 Extra Section Toss-up Questions

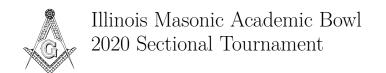
Extra Question #1: Social Studies

10 points

This politician said "In the name of the greatest	George C(orley) Wallace
people that have ever trod this earth, I draw the	(Jr.)
line in the dust and toss the gauntlet before the	
feet of tyranny." Because his state's constitution	
prevented governors from holding office for	
consecutive terms, this person was succeeded by his	
wife Lurleen after his first term. When Arthur	
Bremer was unable to assassinate Richard Nixon,	
he shot this person instead, leaving him paralyzed.	
This person carried five states running for the	
American Independent Party in the 1968 Election.	
Name this governor of Alabama who supported	
"segregation now, segregation tomorrow,	
segregation forever".	
	I .

Extra Question #2: Science

Hydroxides ["hide-ROCK-sides"] of this element are	${f potassium}$ [accept ${f K}$
commonly used to make soft soap. The transport of	before the end]
ions of this element in the body is hindered when	
apamin [AP-uh-min] from bee stings binds to	
calcium-activated channels, which is why bee stings	
are toxic. The English name of this element comes	
from the fact that it is derived from a mineral	
created by soaking the ashes of a plant. The nitrate	
of this element is used in gunpowder. Comparisons	
of the abundance of an isotope of this element to an	
isotope of argon are often used to date rocks. Name	
this alkali metal that in German is called "kalium"	
and which has the chemical symbol "K".	



Round 6 Extra Section Toss-up Questions

Extra Question #3: Fine Arts

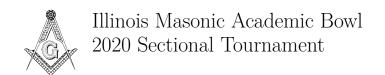
10 points

The top of one painting by this artist shows a circle of angels whose outfits are alternating white, pink, and green, while the bottom of that painting shows three angels embracing three men. That painting is The Mystical Nativity. The top of another painting by this artist depicts a blindfolded Cupid, apparently aiming his arrow at the Three Graces. The right side of that painting depicts Chloris [KLOR-iss] and Zephyrus [ZEFF-ih-russ], while this artist placed Mercury on the left side. Another painting by this artist depicts a Hora about to put clothes on a goddess, who has just come to shore and is standing in a shell. Name this Florentine painter of Primavera and The Birth of Venus.

Sandro Botticelli [boh-tee-CHEL-ee] [or Alessandro (di Mariano) Filipepi]

Extra Question #4: Mathematics

According to an identity named for Leonhard Euler	four
[OY-lur], if two numbers are each a sum of this	
many perfect squares, then their product is also a	
sum of this many squares. William Rowan	
Hamilton developed a number system in which each	
number is defined by this many components. The	
Platonic solid with the fewest number of faces has	
this many faces. If a shape has this many sides,	
then its internal angle measures add up to 360	
degrees. Identify this number of sides of a	
quadrilateral.	



Round 6 Extra Section Toss-up Questions

Extra Question #5: Literature

One novel by this author is narrated by a survivor	H(erbert) G(eorge) Wells
of the <i>Lady Vain</i> , which collided with another boat.	
In that novel, this author has the narrator, Edward	
Prendick, taken to a place inhabited by a doctor	
who is infamous for his vivisection	
[VIV-ih-"section"] experiments. In another novel by	
this author, the narrator saves Weena from	
drowning when nobody else will, and she puts two	
strange white flowers in his pocket. This author	
later describes Weena being lost in a forest fire in a	
fight against the Morlocks. Weena is an Eloi	
[EE-loy]. Name this English author of <i>The Island of</i>	
Doctor Moreau and The Time Machine.	



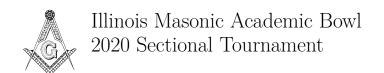
Extra Question #6: Mathematics

10 points per part

This	s adjective describes the smallest possible	
circl	e or sphere that encloses a given shape.	
1	Name this term that describes a circle which	<u>circumscribe</u> d circle or
	often touches each vertex of a polygon.	sphere [accept
		circumscribing circle or
		sphere]
2	If the area of a square is 16, find the area of the	<u>8 pi</u> [do not prompt on
	circle that circumscribes it.	partial answers]
3	If the length of the main diagonal of a cube is 6,	36 pi [do not prompt on
	find the <i>surface area</i> of the sphere that	partial answers]
	circumscribes it.	

Extra Question #7: Mathematics

For	a pyramid, this distance is measured along the	
cent	ter of a face that is not the base.	
1	Give the two-word name for this line segment.	slant height [do not
	For a cone, it is the distance from a point on	prompt on partial answers]
	the base circle to the apex.	
2	Find the slant height of a cone whose radius	<u>5</u> units
	measures 3 units and whose height is 4 units.	
3	Find the total surface area for the same cone,	24 pi square units
	with a radius of 3 units and a height of 4 units.	



Extra Question #8: Social Studies

10 points per part

Wh	en this country was under French control, it	
was	called Saint-Domingue [san doh-meeng]. Then	
it ga	ained independence through a revolution led	
by f	former slaves.	
1	Name this country on the island of Hispaniola	(Republic of) Haiti [or
	in the Caribbean Sea.	(République d') Haiti]
2	This leader of the Haitian revolution was	Toussaint Louverture [or
	named Governor-General for Life in 1801, but	Toussaint <u>Bréda</u>]
	was removed from office in 1802.	
3	Shortly after the revolution, Haiti was split into	Henri <u>Christophe</u>
	two nations, with Alexandre Pétion [pet-yaw]	[awn-ree kree-stawff]
	ruling the south and this person ruling the	
	north until he died by suicide in 1820. This	
	person took on the name King Henry I.	

Extra Question #9: Social Studies

This	s leader was the son of Pepin the Short and	
fath	er of Louis the Pious.	
1	Name this king of the Franks who, in 800,	Charlemagne [or
	became the first Holy Roman Emperor.	Charles the Great or
		<u>Charles I</u> or <u>Carolus</u>
		Magnus; prompt on
		<u>Charles</u> or <u>Carolus</u>]
2	When Charlemagne became king of the Franks,	<u>Carloman</u> I
	he first co-ruled with this man who was his	
	brother and who died three years later.	
3	Charlemagne was briefly married to Desiderata	Lombards or Lombardy
	[deh-see-duh-rah-tuh], a daughter of the leader	
	of these people. With the support of Pope	
	Adrian I, Charlemagne conquered these people.	