

Round 4 1st Section Toss-up Questions

Question #1: Miscellaneous

10 points

This person portrayed Gloria Gaines, who was the wife of the protagonist, in *The Butler*. This person produced and starred in the movie version of *Beloved*. More recently, this person hosts the television show *Super Soul Sunday*. This person started Harpo Productions, which produces the shows *Dr. Phil, Rachael Ray*, and *The Dr. Oz Show*. A well-known meme shows this person repeatedly saying "And you get a car!". Until Breonna Taylor was on the cover of the September 2020 issue, this person was always on the cover of the magazine named for her. Name this former talk-show host who formed the O.W.N. network and publishes *O* magazine.

Oprah (Gail) Winfrey
[accept either underlined
name; accept Orpah (Gail)
Winfrey

Question #2: Social Studies

10 points

After this leader captured the princess Drypetis [DRYP-tiss], he arranged for her to marry his bodyguard Hephaestion [huh-FEESS-tee-un]. This person came to power when his father was killed by the bodyguard Pausanias [paw-SAY-nee-us]. Shortly after gaining power, this leader forced the surrender of the army of Thessaly [THESS-uh-lee]. Because Pindar praised one of this person's ancestors, he spared Pindar's house when he destroyed Thebes [theebz]. This leader ended the Achaemenid [uh-KEE-muh-nid] Empire after defeating Darius III at Gaugamela [gau-guh-MEH-luh] and Issus. Name this person who succeeded his father, Philip II of Macedon, after being tutored by Aristotle.

Alexander the Great [or Alexander III of Macedon]



Round 4 1st Section Toss-up Questions

Question #3: Science

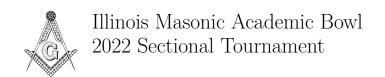
10 points

These structures contain Volkmann's canals that	bone s
allow blood flow from nutrient arteries. The ends of	
some of these structures are called epiphyses	
[eh-PIF-uh-seez]. Of the three classes of fish, the	
one that is not Agnatha or Chondrichthyes	
[kahn-DRIK-theez] has a name indicating that it	
has the tissue in these structures. These structures	
often include medullary [MED-ul-ar-ee] cavities	
that are lined by the endosteum [en-DAH-stee-um],	
while the outer surfaces of these structures are lined	
by the periosteum [peer-ee-AH-stee-um]. One tissue	
often found inside of these structures is where	
leukemia is active and where blood cells are	
created; that tissue is the marrow. Name these	
rigid structures that make up the skeleton.	

Question #4: Literature

10 points

At the beginning of a short story by this author, a	J(erome) D(avid) Salinger
woman waits to call her mother and then tells her	
that her husband was not staring at trees as he	
drove. In that story, this author wrote about a	
conversation on the beach between Sybil Carpenter	
and Seymour Glass. A novel by this author is	
narrated by the brother of the author of "The	
Secret Goldfish". This author's best-known narrator	
becomes upset because of a date between Ward	
Stradlater and Jane Gallagher after he is expelled	
from Pencey Preparatory Academy. Name this	
author of "A Perfect Day for Bananafish" who	
wrote about Holden Caulfield in <i>The Catcher in the</i>	
Rye.	



Round 4 1st Section Toss-up Questions

Question #5: Social Studies

10 points

An angel told this person "Recite in the name of thy lord who created, created man from a clot." This person rode a winged horse-like creature called a Buraq [boo-RAHK] to Jerusalem, where he met Abraham and Jesus, and he got into a debate with Moses about daily prayers. Later, though he was badly outnumbered, this leader won the Battle of the Trench. That battle was fought at Yathrib [YAY-thrib], which now has a different name. This person's practices are described in the sunna [SOON-uh], and his words are given in hadith [hah-DEETH]. Name this 6th- and 7th-century leader who was visited by the angel Gabriel and wrote down the Koran.

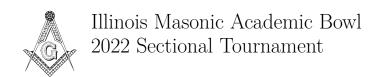
Muhammad [prompt on The Prophet or The Messenger]

Question #6: Mathematics

10 points

In a Wronskian [RAHN-skee-un] matrix, after the first row each entry is made by applying this operation to the entry above it. "Partial" versions of this operation are used to compute each entry in a Jacobian [yah-KOH-bee-un] matrix. Divergence, curl, and gradient are versions of this operation for vector-related functions. A rhyme ending "draw the line and square below" is used to remember how to perform the quotient rule for this operation. This operation can also be done using the product rule and the chain rule. Name this operation used in calculus to find the slope of a tangent line to a function's graph.

derivatives or differentiation or differentiating



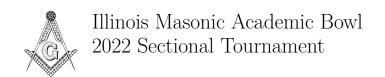
Question #7: Literature

10 points per part

The	traveller in this poem states "Two vast and	
trur	ikless legs of stone stand in the desert."	
1	Name this poem by Percy Bysshe [bish] Shelley	"Ozymandias"
	that says "Look on my Works, ye Mighty, and	
	despair!".	
		-
2	"Ozymandias" is this type of 14-line poem.	sonnet [do not accept
$oxed{2}$	"Ozymandias" is this type of 14-line poem.	sonnet [do not accept more specific answers]
3	"Ozymandias" is this type of 14-line poem. Percy Shelley also wrote this lyrical drama in	
		more specific answers]

Question #8: Literature

Dur	ing a debate, these creatures are described as	
"the	most filthy, noisome, and deformed animals	
whi	ch nature ever produced."	
1	Name these fictional creatures that resemble	Yahoos
	humans and are ruled by a race of talking	
	horses.	
2	The Yahoos appear in the fourth part of this	Gulliver's Travels (or
	novel. Its title character goes to Laputa	${\it Travels \ into \ Several}$
	[lah-POO-tuh] and Brobdingnag	Remote Nations of the
	[BRAHB-ding-nag].	World . In Four Parts. By
		Lemuel Gulliver, First a
		Surgeon, and then a
		Captain of Several Ships)
3	This author wrote Gulliver's Travels and A	Jonathan <u>Swift</u>
	Modest Proposal.	



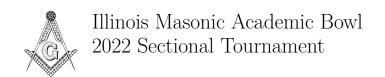
Question #9: Science

10 points per part

This	s region takes up over 80% of the Earth's	
volu	ime.	
1	Name this region between the core and the	<u>mantle</u>
	crust.	
2	Many of the rocks in the mantle, including	$\underline{\mathbf{silicon}}$ [accept $\underline{\mathbf{S}}$]
	olivine [AH-luh-VEEN], garnet, and pyroxene	
	["pie-ROCK-seen"], contain this element and	
	oxygen. This element is the second-most	
	abundant in the crust after oxygen, and it is	
	third after magnesium in the mantle.	
3	The inner mantle has these rocks with the same	(post-)perovskite
	structure as calcium titanium oxide, though the	[puh-RAHVSS-"kite"]
	ones in the inner mantle tend to be magnesium,	[or silicate perovskite]
	iron, or calcium silicate [SIL-ih-kit].	

Question #10: Science

This	s person wrote the book <i>The Origin of</i>	
Con	tinents and Oceans.	
1	Name this person credited with the theories of	Alfred Wegener
	tectonic plates and continental drift.	$[\overline{ ext{VAY-guh-nur}}]$
2	Wegener gave this name to the supercontinent	Pangaea [pan-JEE-uh]
	that existed 300 million years ago and was	
	surrounded by the ocean Panthalassa	
	[pan-thuh-LASS-uh].	
3	Support for Wegener's theories grew decades	Wadati-Benioff seismic
	after his death with the study of these zones	zones [accept names in
	with many earthquakes that are named after a	either order]
	Japanese and an American scientist.	



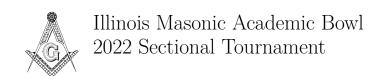
Question #11: Fine Arts

10 points per part

The	e protagonist of this musical, Tevye [TEV-yuh],	
sing	s "All day long I'd biddy-biddy-bum, if I were	
a we	ealthy man."	
1	Name this musical about Jews living in a	Fiddler on the Roof
	Russian shtetl [SHTEH-tul].	[prompt on <u>Fiddler</u>]
2	Yente [YEN-teh] plays this role in Fiddler on	$\underline{\mathbf{matchmaker}}$
	the Roof. Three of Tevye's daughters sing a	
	song whose title is this word repeated.	
3	This is the name of the shtetl where the musical	Anatevka
	is set. This name is also the title of the last	$[{ m an} ext{-}{ m uh} ext{-}{ m TEV} ext{-}{ m kuh}]$
	song of the musical.	

Question #12: Fine Arts

Who	en this musical was turned into a movie,	
Frankie Valli recorded a song saying that the		
song	g's title "is the time, is the place, is the	
mot	ion" and "is the way we are feeling".	
1	Name this musical about the class of 1959 at	\underline{Grease}
	Rydell High School, which includes the T-Birds	
	and the Pink Ladies.	
2	In <i>Grease</i> , this is the name of Kenickie's	"Greased Lightnin'"
	[kuh-NIK-ee'z] car and the title of the song he	[accept Greased
	sings when he fixes it up.	$\overline{ ext{Lightning}}$
3	This character is the head of the Pink Ladies.	(Betty) Rizzo [accept
	At one point in the musical she thinks she is	either underlined part
	pregnant, though that scene is left out of some	_ ,
	productions.	



Question #13: Social Studies

10 points per part

Ans	wer the following about rulings the Supreme	
Cou	rt made in 2021:	
1	The court supported Shawne Alston over this	NCAA or National
	organization, so student athletes can now	Collegiate Athletic
	receive non-cash compensation for	Association
	academic-related purposes.	
2	In a separate case, the court ruled that Google	Oracle (America, Inc.)
	could use parts of Java application	
	programming interfaces even though this	
	company owns the copyright to Java.	
3	Give the common name for the Migrant	Remain-in-Mexico
	Protection Protocols policy. The court forced	policy
	the Biden Administration to try to follow the	
	policy by rejecting a stay in <i>Biden v. Texas</i> .	

Question #14: Social Studies

This	s cable channel was started by Roger Ailes	
[AY	-ulz], who resigned in 2016 when several sexual	
hara	assment allegations were made against him.	
1	Name this network that has shows hosted by	Fox News Channel [or
	Sean Hannity and Laura Ingraham.	$\underline{\mathbf{FNC}}$; prompt on $\underline{\mathbf{Fox}}$]
2	In 2021, Fox News mentioned this academic	critical race theory
	movement over 1,000 times. This legal	[accept <u>CRT</u>]
	movement holds that racism is common and	
	cannot be overcome by color-blind policies.	
3	In 2021, Fox News host Tucker Carlson was	(great) replacement
	criticized for statements such as "demographic	theory [accept replacist
	change is the key to the Democratic Party's	theory or global
	political ambitions". Such statements support	${f replacism}]$
	this white nationalist conspiracy theory.	



Round 4 3rd Section Toss-up Questions

Question #15: Science

10 points

A device that changes this quantity in an electrical signal is a combination of a rectifier and an inverter. A non-linear electrical circuit called a mixer is sometimes named for the fact that it mixes two values of this quantity. Using the most common unit for this quantity, it has a value between about 20 and 20,000 for audible sound. Albert Einstein explained the photoelectric effect by describing a photon's energy as proportional to this quantity. The speed of a wave is the product of the wavelength and this quantity. Name this quantity of waves that is the reciprocal of period and which is measured in hertz ["hurts"].

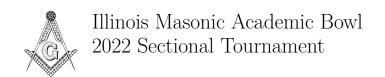
 $\frac{\mathbf{frequency}}{\mathbf{hertz}} [\mathbf{prompt} \ \mathbf{on} \\ \mathbf{hertz}]$

Question #16: Literature

10 points

Near the end of one story by this writer, the Captain sees his white floppy hat in the water, which helps him steer clear of the island of Koh-ring. This writer has the narrator of that story describe another man as his "double". In that story, this author wrote about sailing close to the ship Sephora [seh-FOR-uh], which allowed Leggatt [LEG-ut] to come aboard after escaping. In a novella by this author, the manager's boy famously announces that one of the characters is dead shortly after that character says "The horror! The horror!". That character, who is an ivory trader by the Congo River, is Mr. Kurtz. Name this author of "The Secret Sharer" and Heart of Darkness.

Joseph <u>Conrad</u> [or Józef Konrad <u>Korzeniowski</u>]



Round 4 3rd Section Toss-up Questions

Question #17: Fine Arts

10 points

Some of the sculptures by this artist show his companion Fernande Olivier [fur-NAHND oh-LEE-vee-ay], including some of his Head of a Woman sculptures. After this artist broke up with Olivier, he repainted two of the faces on a painting of five women so that those two women now appear to wear African masks. In that painting, this artist portrayed five aggressively posed naked prostitutes. This painter of Les Demoiselles d'Avignon [lay dem-wah-zel dah-veen-yohn] also made a work showing the suffering of people and animals after a bombing during the Spanish Civil War. Name this painter of Guernica [gair-NEE-kah].

Pablo (Ruiz y) **Picasso**

Question #18: Social Studies

10 points

William F. Buckley ran for this position in 1965. The person who beat Buckley, who would win re-election to this job by running for the Liberal Party after losing the Republican primary, was John Lindsay. The person who held this job from 1934 to 1945 was a pro-New Deal Republican who hosted the radio show "Talk to the People" and worked closely with Robert Moses to build roads, bridges, and airports. From 1994 to 2001, this job was held by Rudy Giuliani, and Giuliani was succeeded by the wealthiest politician in U.S. history, Michael Bloomberg. Name this position, once held by Fiorello La Guardia [fee-oh-RELL-loh lah GWAR-dee-ah], that oversees the most populous U.S. city.

mayor of New York City
[accept alternate phrasings
that include both
underlined parts; prompt
on mayor; accept NYC in
place of New York]



Round 4 3rd Section Toss-up Questions

Question #19: Literature

10 points

One of this author's characters likes to fly kites and	Charles (John Huffam)
works on a memorial speech that refers to King	<u>Dickens</u>
Charles I. This author has that character, who is	
called Mr. Dick, help Dr. and Annie Strong with	
their marriage. Dr. Strong heads a school that this	
author's title character attends after leaving a	
school headed by Mr. Creakle. In another novel by	
this author, two characters who look nearly	
identical are named Sydney Carton and Charles	
Darnay. This author began that novel "It was the	
best of times, it was the worst of times." Name this	
author of David Copperfield and A Tale of Two	
Cities.	

Question #20: Science

10 points

In the body, an equivalent of this molecule is	ammonia
condensed with carbon dioxide and ATP to form	
carbamoyl [kar-BAM-oh-ill] phosphate, ADP, and	
phosphate. Outside the body, sodium carbonate is	
created by the Solvay process, which begins with	
brine absorbing this compound. An alternative	
name for the Solvay process is based on the fact	
that it combines this compound with soda. The	
Ostwald process makes nitric acid from this	
compound. The Haber–Bosch [HAH-bur bahsh]	
process creates this compound from atmospheric	
nitrogen. Name this compound whose chemical	
formula is NH ₃ ["N H 3"].	



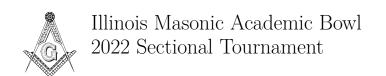
Question #21: Mathematics

10 points per part

The	least common multiple is used to find this	
valu	e when adding or subtracting fractions.	
1	Give this term for the number or expression on	denominator
	the bottom of a fraction.	
2	Find the least common denominator if you are	<u>60</u>
	adding fractions whose denominators are 10	
	and 12.	
3	Find the least common denominator if you are	x cubed times y cubed
	adding fractions whose denominators are the	times z squared [accept
	following expressions: " x squared times y cubed	the $x, y,$ and z portions in
	times z " [pause] and " x cubed times y times	any order, but the words
	z squared".	following each variable
		must match]

Question #22: Mathematics

This operation can be understood as repeated		
mul	tiplication.	
1	Name this operation usually written by putting	exponent iation (accept
	a number or expression as a superscript.	taking power s)
2	Find the value of 8 raised to the $4/3$ power.	<u>16</u>
3	The inverse of an exponential function is a	1/2 or 0.5
	logarithmic function. Find the logarithm,	
	base 16, of 4.	



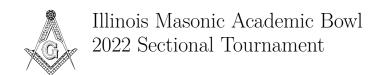
Question #23: Social Studies

10 points per part

This	s person's uniform number 42 is retired from	
base	eball except on April 15, when everybody	
wea	rs it.	
1	Name this first African-American person to	(Jack Roosevelt) "Jackie"
	play Major League Baseball in the 20th century.	Robinson
2	This Brooklyn Dodgers general manager signed	(Wesley) Branch Rickey
	Robinson to a contract in 1945. Robinson made	
	it to the majors in 1947 and was the National	
	League Rookie of the Year.	
3	In 1956, this woman became the first	Althea (Neale) Gibson
	African-American person to win a tennis Grand	
	Slam title. She later integrated professional	
	women's golf.	

Question #24: Social Studies

Dor	is Kearns Goodwin wrote Team of Rivals	
abo	ut this president and his cabinet.	
1	Name this president from 1861 to 1865 who was	Abraham <u>Lincoln</u>
	succeeded by his second vice president, Andrew	
	Johnson.	
2	This person was Lincoln's secretary of State.	William (Henry) Seward
	During Johnson's presidency, he negotiated the	
	purchase of Alaska.	
3	This person was Lincoln's secretary of the	Salmon P(ortland) Chase
	Treasury for most of Lincoln's presidency.	[do not accept "Samuel
	Lincoln then appointed him as Chief Justice.	Chase"]



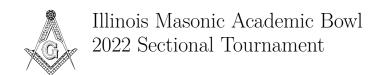
Question #25: Science

10 points per part

The	se molecules are used during translation.	
1	Name these molecules that are usually classified	RNA [or ribonucleic
	as messenger, transfer, or ribosomal.	acid]
2	This nucleobase [NOOK-lee-oh-"base"] is used	uracil [YUR-uh-sill]
	in RNA but not DNA, since DNA uses thymine	[prompt on $\underline{\mathbf{U}}$]
	["THIGH"-meen] instead of this base.	
3	The DNA types of these enzymes separate	<u>helicase</u> s
	DNA strands, while the RNA types identify	[HEE-lih-"cases"]
	viruses and also bind or remodel RNA.	

Question #26: Science

The	se plants bear flowers and have stamens with	
poll	en sacs.	
1	Name these plants that enclose their seeds	angiosperms or
	within fruit, unlike gymnosperms	<u>Angiospermae</u>
	[JIM-no-"sperms"].	
2	Angiosperms are typically placed at this	division(s)
	taxonomic [tak-soh-NAH-mik] rank that is	
	equivalent to an animal phylum.	
3	This type of branching in angiosperms occurs	sympodial branching
	when lateral growth patterns are more	
	significant than the central shoot. This	
	branching is contrasted with monopodial	
	[mah-noh-POH-dee-ul] branching.	



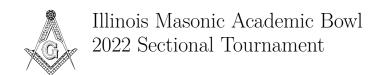
Question #27: Literature

10 points per part

This	s character "longed to travel or to go back to	
her	convent. She wished at the same time to die	
and	to live in Paris."	
1	Name this title character who marries a doctor	Madame Emma Bovary
	and has several affairs.	[accept either underlined
		name]
2	This author wrote <i>Madame Bovary</i> .	Gustave <u>Flaubert</u>
		[goo-stahv floh-bair]
3	Instead of Paris, Madame Bovary ends up living	Yonville-l'Abbaye
	in this market town with her husband and	[yohn-veel lah-bay]
	daughter Berthe [bair-tuh].	

Question #28: Literature

Much of this short story is about the relationship		
between Dr. Ragin [RAY-gin] and Ivan Dmitritch		
Gromov [GROH-mawff].		
1	Name this story in which Ragin eventually	"Ward Number 6" [or
	becomes a psychiatric patient like Gromov.	"Palata nomer shest"]
2	This Russian author wrote "Ward Number Six"	Anton (Pavlovich)
	as well as plays such as Three Sisters and The	<u>Chekhov</u> [AN-tahn
	Cherry Orchard.	"CHECK-off"
3	In this Chekhov play, Nina compares herself to	The Seagull [or Chayka]
	the title bird that has been killed by	
	Konstantin [KAHN-stun-teen].	



Round 4 5th Section Toss-up Questions

Question #29: Social Studies

10 points

This European country settled the city of Dili [DEE-lee] in the 16th century, and they fought for many years with the Dutch and the natives over the island of Timor [TEE-mor]. This country also fought with the Dutch over other islands in a conflict nicknamed the "Spice War". This country claimed Mozambique [moh-zam-BEEK] after expeditions by Pedro da Covilhã [koo-VEEL-yaw] and Vasco da Gama. Another explorer from this country was Pedro Cabral, who is considered the European discoverer of Brazil. Name this country that signed the Treaty of Tordesillas [tor-day-SEE-yahss] with Spain and which now shares the Iberian Peninsula with Spain.

(Kingdom of) **Portugal** [or Reino de **Portugal**]

Question #30: Mathematics

10 points

Poincaré [pwan-kar-ay] models allow for "ultra-"
and "limiting" versions of this concept. Those
alternative types of this concept occur generally in
hyperbolic geometry. Playfair's axiom is equivalent
to the postulate named for this property, which is
the last of Euclid's [YOO-klid'z] five postulates.
Playfair's axiom, which is sometimes mistakenly
described as the postulate named for this property,
states that given a line and a point not on it, there
is exactly one line through the point with this
property relative to the original line. If two lines
have the same slope, they also have this property.
Name this property of lines that go in the same
direction.

parallel(ism) or being
parallel or parallel lines



Round 4 5th Section Toss-up Questions

Question #31: Literature

10 points

This novel praises the pictures in Thomas Beale's history book. One character in this novel says the word "Rarmai" while lying in his coffin and then decides to live. This novel's narrator asks himself about that character, "How then could I unite with this wild idolator in worshipping his piece of wood?". In the end, this novel's narrator stays afloat on top of an unused coffin after everyone else is killed. Daggoo, Tashtego, and Queequeg [KWEE-kweg] are the harpooners in this novel. This novel consists of Ishmael narrating Captain Ahab's pursuit of a whale. Name this novel by Herman Melville.

Moby-Dick(; or, The Whale) [do not accept or prompt on "The Whale"]

Question #32: Science

10 points

This object is the location of Ahuna [ah-HOO-nuh]	Ceres ["series"]	
Mons, which is a large cryovolcano		
["CRY"-oh-"volcano"] with vertical streaks.		
Research in the last few years indicates that this		
object has a similar amount of water and water ice		
to Earth, including in its mantle and on its surface,		
even though this object's radius is a little under		
one-tenth of Earth's radius. This object is the		
larger of the two objects orbited by the Dawn		
spacecraft, which has been going around it since		
2015. This object is larger than, but in a similar		
orbit to, Pallas and Vesta. This object is by far the		
nearest dwarf planet. Name this largest asteroid.		



Round 4 Extra Section Toss-up Questions

Extra Question #1: Literature

10 points

This god had relationships with two nymphs, both of whom were eventually turned into plants, and who were named Leuke [LOO-kuh] and Minthe [minth]. Just after Helen of Sparta was kidnapped by Theseus [THEE-see-uss], an attempt to steal this god's wife was made by Pirithous ["pie"-RITH-oh-uss], who was punished by being unable to get up from a rock he was sitting on. This god made his wife eat a pomegranate [PAHM-eh-gran-it] seed, and as a result she spends one-third of the year with him rather than returning permanently to her mother. This god was married to Persephone [pur-SEFF-uh-nee] and was assisted by the multi-headed dog Cerberus [SUR-bur-uss]. Name this god of the dead and ruler of the underworld.

Hades or Pluto(n)

Extra Question #2: Mathematics

10 points

The partial type of this property exists for trace monoids. In logic, the material conditional is the only major binary relation that does *not* have this property. When this property does not hold, it is necessary to specify left or right multiplication. If this property holds, then changing the order of the operands does not change the result. NAND gates exhibit this property but are not associative. Many systems that have this property also have distributive and associative properties. Name this property stating that "x plus y" always equals "y plus x".

commutative property or
commutativity [accept
answers that also mention
addition or multiplication]



Round 4 Extra Section Toss-up Questions

Extra Question #3: Social Studies

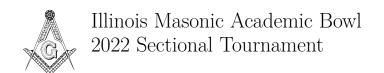
10 points

This person "was happiest amongst mortals	Daniel <u>Boone</u>
anywhere" according to one of the seven stanzas	
devoted to him in Lord Byron's <i>Don Juan</i> [dahn	
JOO-un]. One of the towns named for this person	
was established at the same time and in the same	
area as Harrod's Town and Logan's Fort. One of	
the expeditions this person led was turned back	
after his son James was tortured to death. A major	
project by this person was done for the	
Transylvania Company and started from Fort	
Chiswell in Virginia. Name this American	
frontiersman who started the Wilderness Road	
through the Cumberland Gap into Kentucky.	

Extra Question #4: Fine Arts

10 points

This composer worked with the violinist Paul	John (Milton) <u>Cage</u> (Jr.)
Zukofsky [zoo-KAWFF-skee] to create a very	
detailed set of études [ay-toodz] inspired in part by	
the phrase "practicality of the impossible". That	
work is similar to a set of études this composer	
wrote for the pianist Grete [GREH-tuh] Sultan.	
Those works are the <i>Freeman Etudes</i> and <i>Études</i>	
Australes [ay-toodz aw-STRAH-layss]. This	
composer also wrote a series of five compositions	
with the same title, the fourth of which is played by	
24 performers using 12 radios. This composer of	
Imaginary Landscapes also wrote a piece that	
allows listeners to focus on the sound of their	
environment. Name this experimental composer of	
Four Minutes, Thirty-Three Seconds.	

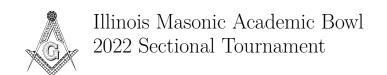


Round 4 Extra Section Toss-up Questions

Extra Question #5: Science

10 points

rabies [prompt on This disease was the first one fought using human diploid [DIP-loyd] cell and purified-chick-embryo hydrophobia before it is cell-culture vaccines, though most people are not mentioned vaccinated for it. The virus that causes this disease is the most widely known Lyssavirus [LIS-uh-"virus"]. The name of this disease comes from the Latin word for "madness" because it causes confusion and hallucinations. Because one of the symptoms of this disease is a paralysis of throat muscles leading to a fear of water, it used to be called hydrophobia. This disease causes excessive salivation, which is commonly called "foaming at the mouth". Name this disease that is most commonly transmitted by an animal bite.



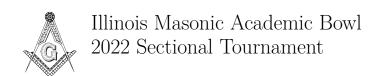
Extra Question #6: Literature

10 points per part

The	speaker of this poem tells inanimate objects	
"Sta	y where you are until our backs are turned!".	
1	Name this poem that ends with the quote	"Mending Wall"
	"Good fences make good neighbors."	
2	This American poet wrote "Mending Wall". He	Robert (Lee) Frost
	read his poem "The Gift Outright" at President	
	Kennedy's inauguration.	
3	What is the last word in Robert Frost's poem	$\underline{\text{difference}}$
	"The Road Not Taken"? The rest of the line is	
	"And that has made all the"	

Extra Question #7: Literature

This book starts in Sanderling Island, Georgia,		
and the first part of it is from the point of view of		
Orleanna Price.		
1	Name this novel in which Orleanna's daughter,	The Poisonwood Bible
	Ruth May, forgets to take her malaria pills and	
	is bitten by a snake.	
2	This author wrote <i>The Poisonwood Bible</i> and	Barbara Kingsolver
	Animal, Vegetable, Miracle.	
3	Methuselah, who is an African grey parrot in	Edgar Allan Poe
	The Poisonwood Bible, is compared to this	
	poet's raven.	



Extra Question #8: Mathematics

10 points per part

Answer the following about mathematical tools:		
1	Classical geometric construction problems are limited to an unmarked straightedge and this	compass(es)
	device, used to draw circles or arcs.	
2	These ancient calculation instruments usually	<u>abacus</u> (es) [or <u>abaci</u> or
	had sets of five beads on one side and two	soroban s or suanpan s]
	beads on the other side.	
3	Find the result of a one-digit by two-digit	399
	multiplication using Napier's bones if the left	
	square has an upper-left 3 and lower-right 5,	
	and the right square has an upper-left 4 and	
	lower-right 9.	

Extra Question #9: Mathematics

This	s many seconds is a little over 30,000 years.	
1	Name this number equal to 10 to the 12th	one trillion
	power.	
2	Name the number that equals 1 trillion times	one quadrillion
	1,000.	
3	This mathematician introduced "up-arrow	Donald Knuth
	notation" to make it easier to express very large	[kuh-NOOTH]
	numbers.	