

Round 4 1st Section Toss-up Questions

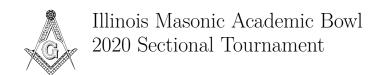
Question #1: Literature

10 points

A poem by this writer begins "Low-anchored cloud,	Henry David Thoreau
Newfoundland [NOO-fund-lund] air." Another	
poem by this writer ends "But he goes unappeased	
who is on kindness bent." Those poems, "Mist" and	
"Friendship", are in this writer's <i>Poems of Nature</i> .	
In a book, this writer imagines a conversation with	
a poet who is believed to be William Ellery	
Channing. That conversation occurs in "Brute	
Neighbors", a section of this writer's book that also	
describes a war between red ants and black ants. In	
that book, this person states "I went to the woods	
because I wished to live deliberately." This author	
named that book after the pond he lived near.	
Name this transcendentalist who wrote Walden.	

Question #2: Fine Arts

One of the most famous jazz performers on this	guitar s
instrument bought his instrument the day after	
hearing Charlie Christian perform on it. That	
performer, whose songs include "Bumpin' on	
Sunset" and "Four on Six", was Wes Montgomery.	
He famously played this instrument with the side of	
his thumb. Another performer on this instrument,	
who composed the songs "Nuages" [noo-ahj] and	
"Minor Swing", was Django [JAYN-goh] Reinhardt.	
Jazz performers often use the archtop type of this	
instrument, such as the one made by Gibson, and	
they typically use electric instruments. Name this	
fretted instrument that usually has six strings and	
may be played with a pick or strummed.	



Round 4 1st Section Toss-up Questions

Question #3: Mathematics

10 points

The Cauchy-Riemann [koh-shee REE-mahn] equations are used to determine whether functions using these numbers are differentiable. The fundamental theorem of algebra states that every non-constant polynomial whose coefficients are this type of number has at least one root that is this type of number. These numbers are often represented on an Argand [ar-gawn] diagram, which is two-dimensional and uses the x-axis to represent these numbers' real part. These numbers can be raised to powers using de Moivre's [mawv'z] formula, which uses their polar or "cis" [siss] form. Name these numbers that have imaginary parts and can be expressed in the form "a plus bi".

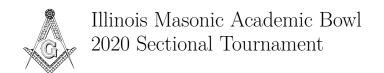
 $\frac{\mathbf{complex}}{\mathbf{prompt}} \text{ numbers}$ \mathbf{C}

Question #4: Social Studies

10 points

This person's signature was four lines, with the top line being an 'S' between two dots. This person and his brothers Bartholomew and Diego were investigated by Francisco de Bobadilla [boh-bah-DEE-yah], who sent them home in chains. This person and his followers established the settlement of La Navidad [nah-vee-DAHD], which was destroyed within one year. This person's first of four voyages went to what is now the Bahamas, Cuba, and Hispaniola, probably making him the first European to reach those places. He named one of his settlements "La Isabela" after the queen who supported him. Name this person who sailed in 1492 using the ships the *Pinta*, *Niña* [NEEN-yah], and *Santa María*.

Christopher <u>Columbus</u> [or Cristoforo <u>Colombo</u> or Cristóbal <u>Colón</u>]



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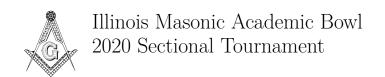
Question #5: Science

10 points

One of the elements in this group of the periodic	halogens [accept Group
table is commonly used in diphenyl ethers	<u>17]</u>
["die"-FEEN-ul EE-thurz] as a fire retardant.	
Another element in this group was first produced in	
2010 and is called Tennessine [TEN-uh-seen]. Two	
elements in this group combine with carbon to	
create compounds useful as aerosols and	
refrigerants, but those compounds harmed the	
ozone layer. Elements in this group are extremely	
good at attracting electrons, which means that they	
have the highest electro-negativities. Name these	
elements such as bromine [BROH-meen] and	
fluorine that are just to the left of the noble gases	
on the periodic table.	

Question #6: Literature

Odin punished Thiazi [THEE-uh-see] by taking	<u>eye</u> s
these body parts from him and placing them in the	
sky. Odin sacrificed this body part to Mimir's	
[MEE-mir'z] well to gain wisdom. The wadjet is a	
symbol depicting this body part of Horus, which he	
offered to Osiris [oh-"SIGH"-rus] after it was	
removed by Set. In addition to sharing one tooth,	
the three sisters called the Graeae [GREE-ee]	
shared one of these body parts. Shiva had three of	
these body parts, including one in the middle of his	
forehead. Name this body part of which the	
Cyclops were often depicted with only one.	



Question #7: Science

10 points per part

The	e gestational [jess-TAY-shun-ul] form of this	
dise	ease can cause newborn babies to be larger	
thai	n usual.	
1	Name this class of diseases characterized by	diabetes mellitus
	high blood sugar levels.	
2	Diabetes is often caused by damage to these	<u>beta</u> cells
	cells in the pancreas that synthesize insulin.	
3	Beta cells also release amylin [AM-uh-lin] and	C-peptide [or connecting
	this peptide that can be used to bind insulin.	peptide]
	Levels of this peptide ["PEP-tide"] can	
	differentiate between types of diabetes.	

Question #8: Science

Alco	pholism commonly damages this organ.	
1	Name this organ where cirrhosis [suh-ROH-siss] can occur, meaning that healthy tissue is	liver
	replaced by scar tissue.	
2	This disease is an inflammation of the liver. Type B is usually sexually transmitted.	hepatitis [hep-uh-"TIE"-tiss]
3	Liver disease can be a sign of this genetic disorder that leads to copper poisoning.	Wilson's disease [or hepatolenticular degeneration or progressive lenticular degeneration]



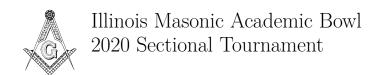
Question #9: Social Studies

10 points per part

Dur	ing this battle, the Union defended itself at	
Cen	netery Ridge.	
1	Name this deadly July 1863 battle in	Battle of Gettysburg
	Pennsylvania. A few months after this battle,	
	President Lincoln dedicated a cemetery at its	
	site by giving a speech that began "Four score	
	and seven years ago."	
2	On the last day of the battle, the Confederates	George (Edward) Pickett
	made a charge at Cemetery Ridge that is	[accept Pickett 's Charge]
	named for this major general.	
3	This person resigned as Commander of the	Joseph Hooker
	Army of the Potomac three days before	
	Gettysburg and was replaced by George Meade.	
	He was blamed for the Union loss at	
	Chancellorsville.	

Question #10: Social Studies

Elec	etion to this office was described by article 1,	
sect	ion 3 of the Constitution, which was changed	
by t	the 17th Amendment.	
1	Name this federal job that has a six-year term.	U.S. <u>senator</u> (s) [accept
		the U.S. <u>Senate</u>]
2	This party's Omaha Platform advocated direct	Populist Party or the
	election of U.S. senators. This party peaked	Populist s [or the
	during the 1890s.	People's Party]
3	The Populist Party supported this politician,	William Jennings Bryan
	who called for the direct election of Senators	
	and was the Democratic Presidential Candidate	
	in 1896, 1900, and 1908.	



Question #11: Mathematics

10 points per part

If yo	ou measure angles in this unit, then the limit	
as x	approaches 0 of sine x over x [pause] equals 1.	
1	Name this unit for angles that is based on arcs	<u>radian</u> s
	of the unit circle.	
2	Convert 100 degrees to radians.	5 pi/9 radians or $5/9 pi$
		radians
3	Find the measure of a circle's central angle in	0.6 or $3/5$ radians [do not
	radians if the radius of the circle is 10 units and	accept answers that
	the angle subtends an arc of length 6 units.	mention pi]

Question #12: Mathematics

Thi	s process is sometimes equivalent to the	
dist	ributive property in reverse.	
1	Name this process that changes a polynomial	<u>factor</u> ing or <u>factor</u> ization
	into a product of simpler polynomials.	[accept <u>factor</u> izing]
2	One way to factor is to find two numbers with a	7 and 13 [either order]
	given sum and product. Find two numbers	
	whose sum is 20 and whose product is 91.	
3	Numbers are often broken down into prime	$\underline{4}$ [accept 2 to the $\underline{4}$ th
	factors. Find the power of 2 in the prime	power]
	factorization of 144.	



Question #13: Literature

10 points per part

In C	George Bernard Shaw's play Man and	
Sup	erman, John Tanner dreams about this	
char	racter in Hell.	
1	Name this womanizer who is the subject of	Don <u>Juan</u> [wahn]
	many works of fiction by many writers,	
	including Thomas Shadwell's play The	
	Libertine [LIB-ur-teen].	
2	In his poem <i>Don Juan</i> , this English poet said	(George Gordon Byron),
	the title character was "sent to the devil	Lord Byron (, 6th Baron
	somewhat 'ere his time". This poet also wrote	Byron)
	"She Walks in Beauty".	
3	In the initial legend and in Lord Byron's poem,	Seville, Andalusia, Spain
	Don Juan is from this city.	[or <u>Sevilla</u>]

Question #14: Literature

This	s poem refers to "pebbles which the waves	
drav	w back, and fling" and which "begin, and cease,	
and	then again begin."	
1	Name this poem that ends by stating we are	"Dover Beach"
	"where ignorant armies clash by night".	
2	This 19th-century English poet wrote "Dover	Matthew Arnold
	Beach".	
3	What adjective is used before the word "plain"	darkling
	in the third-to-last line of "Dover Beach"?	
	Thomas Hardy used this adjective to describe a	
	thrush in the title of one of his poems.	



Round 4 3rd Section Toss-up Questions

Question #15: Science

10 points

This planet's trojans include Clete [KLEE-tuh] and	Neptune
Otrera [oh-TRAIR-uh]; this planet and Jupiter are	
the only ones in our solar system with a lot of	
trojans. This planet has a high layer of methane	
clouds that cast shadows on a lower layer of	
ammonia and hydrogen sulfide clouds. This planet	
has temporary storms that are about the size of	
Earth, one of which was the Great Dark Spot. This	
planet's largest moon, which has a retrograde orbit,	
is Triton. This planet is slightly smaller than	
Uranus. Name this planet that, since the demotion	
of Pluto, has been the farthest known planet in our	
solar system.	

Question #16: Social Studies

During this war, George Monro was promised that	French and Indian War
his troops would be able to travel to Fort Edward,	[prompt on Seven Year s'
but some of his troops were slaughtered. That event	War]
happened after this war's Siege of Fort William	_
Henry, which was a victory for Louis-Joseph [loo-ee	
zhoh-seff] de Montcalm. Two years later during this	
war, Montcalm was killed while losing in battle to	
James Wolfe, who also died in the Battle of the	
Plains of Abraham. At this war's Battle of Fort	
Necessity, George Washington surrendered. Name	
this 1754-to-1763 war named for the two groups	
that the British colonies in America fought against.	



Round 4 3rd Section Toss-up Questions

Question #17: Miscellaneous

10 points

A company that sells this product can set its own UCR standard, which stands for "usual, customary, and reasonable". This product is sometimes classified as point-of-service or fee-for-service. Customers who purchase this product often supplement it with a flexible spending account. This type of product can be based on a preferred provider organization, or PPO. People who purchase this product have a maximum out-of-pocket cost, which is in addition to the premiums they pay. The out-of-pocket costs paid by customers are called a deductible. Name this product that is supposed to cover medical costs.

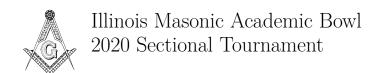
health insurance (plans) or (major) medical insurance (plans) [before "medical", prompt on insurance (plans); accept just insurance (plans) after "medical"]

Question #18: Literature

10 points

At the beginning of the third play in a trilogy by this writer, a woman tells her sister that she wants to bury their brother's dead body. This writer then depicts Ismene ["is-many"] refusing to help bury Polyneices [pah-lee-"NICE"-eez] because of a decree by the king. In the first play in that trilogy, which takes place while that king's brother-in-law is on the throne, this writer has the words "You yourself are the criminal you seek" spoken by the blind prophet Tiresias ["tie"-REE-see-uss]. This writer ended that play with the king gouging out his own eyes. In that play, this writer described the death of Laius ["LIE"-uss] and the events leading Jocasta [yoh-KAHSS-tuh] to unwittingly marry her son. Name this playwright of *Antigone* [an-TIG-uh-nee] and Oedipus Rex.

Sophocles



Round 4 3rd Section Toss-up Questions

Question #19: Science

10 points

When the cells around these things are dumbbell-shaped, these things are called "gramineous" [gruh-MIN-ee-uss]. Other surroundings can cause these objects to be classified as anomocytic [ay-noh-moh-SIT-ik] or anisocytic [an-"EYE"-soh-sit-ik]. In addition to their immediate surroundings, these things are separated by pavement cells, subsidiary cells, and trichomes [TRY-kohmz]. The two cells around each of these things fill with water when conditions are not hot or dry, making these things open; those special parenchyma [pair-en-KY-muh] cells around these things are guard cells. These things also get larger when there is less carbon dioxide than normal. Name these microscopic openings on the surfaces of leaves.

stomata [accept stomas
or stomates; prompt on
holes or pores or leafs or
guard cells]

Question #20: Social Studies

During this book of the Bible, a person claims God	Genesis [or Bereishit]
told him "I will give this land to your descendants	
as their possession forever." Also in this book of the	
Bible, a person states he had a dream in which "the	
sun, the moon, and eleven stars were bowing down	
to me." Those people, who die at the end of this	
book, are Jacob and Joseph. Earlier in this book,	
God saves Lot after some pleading by Lot's uncle,	
Abraham. Even earlier in this book of the Bible,	
Cain kills Abel. Name this book in which the fruit	
of the tree of knowledge of good and evil is eaten	
by Adam and Eve in the Garden of Eden.	



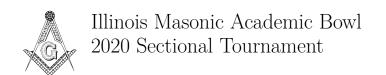
Question #21: Fine Arts

10 points per part

Ider	ntify these artists who placed dogs in their	
pair	ntings:	
1	This artist put a pet dog near the pet monkey	Georges(-Pierre) Seurat
	in his pointillist masterpiece A Sunday	[zhorzh soo-rah]
	Afternoon on the Island of La Grande Jatte	
	[zhaht].	
2	This artist showed a woman playing with a dog	Pierre-Auguste Renoir
	who is on the table in Luncheon of the Boating	[ren-war]
	Party.	
3	There are several dogs in the lower left corner	Pieter Bruegel
	of this 16th-century artist's Hunters in the	[BROO-gull] the Elder
	Snow, which is also known as The Return of the	
	Hunters.	

Question #22: Fine Arts

This	s term was originally used for works in	
Pon	npeii and comes from the Italian word for	
"scri	ibble" or "scratch".	
1	Give this term for artwork made without	graffiti [or s graffito]
	permission, often on a wall.	
2	This British graffiti artist—who is known by a	Banksy
	pseudonym—created Slave Labor, which depicts	
	a child putting small British flags together, and	
	The Mild Mild West, which shows a bear and	
	riot police.	
3	This artist joined with Al Diaz to popularize	Jean-Michel Basquiat
	the SAMO ["SAME-oh"] graffiti tag during the	[zhahn mee-shel
	1970s. His later acrylic works have nicknames	bahss-kee-ah]
	such as Yellow Tar and Feathers and Black	-
	King Catch Scorpio.	



Question #23: Science

10 points per part

Enr	iching this element means increasing its 235	
isote	ope.	
1	Name this element used in Little Boy, the first	$\underline{\text{uranium}} [\text{accept } \underline{\mathbf{U}}]$
	nuclear weapon used in war. Plutonium was	
	used in Fat Man.	
2	The enriching of uranium takes place using	(gas) <u>centrifuge</u> s
	diffusion and one of these objects that spins,	$[{f SEN-trih-fyooj}$ -iz $]$
	causing a separation based on density.	
3	The mineral uraninite [yoo-RAN-uh-"night"], in	pitchblende
	which uranium was first discovered, used to	
	have this name. Marie Curie isolated radium	
	from this material.	

Question #24: Science

611.2 pascals.	
1 Give this term for the combination of triple point	<u>ıt</u>
temperature and pressure at which a compound	
can exist as a solid, liquid, and gas in	
equilibrium.	
2 On a phase diagram, the curve below and to sublimatio	<u>n</u> (curve)
the left of the triple point is named for this [accept <u>sub</u>	<u>limate</u> or
process, in which a substance changes from a sublimating	$[\mathbf{g}]$
solid to a gas.	
3 This point on a phase diagram borders two lambda por	int
liquid phases and a gas phase.	



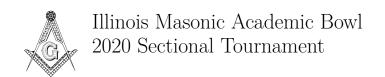
Question #25: Social Studies

10 points per part

Т	his	s type of tax can be called a customs duty.	
1	L	Give this term for a tax on imports or exports.	tariff(s)
2	2	This name is given to policies that use tariffs to shield producers from foreign competition.	<pre>protectionism or protectionist</pre>
ć	3	This Latin phrase is used to describe tariffs whose amount is based on the value of the goods, similar to a value-added tax.	ad valorem

Question #26: Social Studies

War	ren Buffett said "My wealth has come from a	
com	bination of living in America, some lucky	
gene	es, and" the compound type of this payment.	
1	Give this term for a payment made from a	interest
	borrower to a lender.	
2	This rate is the interest rate that banks charge	prime lending rate
	to lenders who have the best credit ratings.	
3	The prime rate depends on this interest rate,	<u>fed</u> eral <u>funds</u> rate
	which is what banks charge each other, usually	
	on an overnight basis.	



Question #27: Literature

10 points per part

The	husband in this story says "Nothing like a	
hair	cut could make me love you any less. But if	
you	'll open that, you may know what I felt when I	
cam	ne in."	
1	Name this O. Henry story in which Della sells	"The Gift of the Magi"
	her hair to buy a Christmas gift for her	
	husband.	
2	Della sells her hair to buy this object for her	a gold watch chain [do not
	husband Jim.	accept or prompt on
		"watch"]
3	In his other story "The Caballero's	the Cisco Kid [or
	[kah-bay-YAIR-oh'z] Way", O. Henry created	Goodall]
	this character who loved to kill and was loved	
	by Tonia Perez.	

Question #28: Literature

The	characters in this novel have trouble handling	
the	memory of their time at Sweet Home and	
wha	t happened during their escape from it.	
1	Name this novel set at 124 Bluestone Road in	$\underline{Beloved}$
	Cincinnati.	
2	This African-American woman wrote Beloved	Toni Morrison [or Chloe
	as well as The Bluest Eye and Tar Baby. She	Ann Wofford]
	died in 2019.	
3	At one point during the novel, Sethe	ice skating [or ice skate ;
	[SETH-uh], Beloved, and Denver laugh until	accept glide or gliding]
	they cough after Denver falls down while doing	
	this activity.	



Round 4 5th Section Toss-up Questions

Question #29: Social Studies

10 points

Meetings that occurred in this city's gardens of the	<u>Tehran</u> , Iran
British Embassy in 1906 led to its country having a	
new constitution. This city was used as a capital by	
the founder of the Qajar [kah-JAR] dynasty	
starting in 1786. In 1953, the CIA—with British	
support—organized riots in this city as part of	
Operation Ajax to overthrow the prime minister,	
who had nationalized the oil industry. In 1979, a	
group of students took over the American embassy	
in this city, and for over a year they held over 50	
American hostages. Name this city that, during the	
1980s, was the home of Ayatollah Ruhollah	
Khomeini [roo-HOE-luh koe-MAY-nee] and which	
is the capital of Iran.	

Question #30: Science

This person wrote about a spinning bucket of water	Isaac <u>Newton</u>
to describe his thoughts on absolute motion. This	
person proved that a spherically symmetric body	
can be treated as though all its mass is at its center,	
except mass farther away than the object it is	
attracting. The fact that the rate of change of	
temperature is proportional to the difference	
between an object's temperature and room	
temperature is this person's law of cooling. The	
fact that every force is paired up with an equal and	
opposite force is this person's third law of motion.	
Identify this scientist who developed the law of	
universal gravitation and who is the namesake of	
the S.I. unit of force.	



Round 4 5th Section Toss-up Questions

Question #31: Literature

10 points

This character asks "Do you think, because I am poor, obscure, plain, and little, I am soulless and heartless?". When a marriage proposal is made to this character, she says "You play a farce, which I merely laugh at" because the man who proposes to her had said that he will marry Blanche. After that engagement fails, this character rejects a marriage proposal from St. John [SIN-jin] Rivers. The first man to propose to this character was still married to Bertha Mason, who lived in his attic. Name this orphan who eventually marries Mr. Rochester and is the title character of a novel by Charlotte Brontë [brahn-tay].

Jane Eyre [accept either]

Question #32: Mathematics

10 points

One method to calculate this property is called expansion by minors and uses cofactors. A common shortcut for evaluating a triple product is to make the calculation equivalent to calculating this property. The value of this quantity is 0 when it comes from a structure that is not invertible. This quantity is negative when transformations of points or axes involve a reflection. Ratios of these quantities are used in Cramer's rule to find the solution to a system of equations. Name this quantity found from a square matrix that, when the matrix measures 2-by-2, can be calculated using the formula " $a \ d$ minus $b \ c$ ".

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Round 4 Extra Section Toss-up Questions

Extra Question #1: Literature

10 points

The main character in this book states, "You	The <u>Prophet</u>
delight in laying down laws, yet you delight more in	
breaking them." This book gives that response to a	
lawyer who asks "But what of our laws, master?".	
The main character of this book is told to speak to	
us of love, and his answer includes "For love is	
sufficient unto love". This book begins with "The	
Coming of the Ship" and calls its title character	
"the chosen and the beloved". That title character	
is Almustafa [ahl-moo-STAH-fuh]. Though this	
book was written in English in the United States,	
its author was born in the Ottoman Empire in	
what is now Lebanon, and he often wrote in Arabic.	
Name this book by Kahlil Gibran [kuh-LEEL	
juh-BRAHN].	
	I .

Extra Question #2: Mathematics

For an osculating [AHSS-"cue"-lay-ting] circle, this	$\underline{\mathbf{radius}}$ [prompt on $\underline{\boldsymbol{r}}$]
property is the reciprocal of the curvature. When	
using the method of cylindrical shells, the integral	
is taken with respect to this quantity. The product	
of the side lengths of a triangle divided by 4 times	
the area [pause] gives this property of the triangle's	
circum·circle. The area of a sector equals 1/2 times	
this quantity squared times the central angle.	
4/3 pi is multiplied by this quantity cubed to	
calculate the volume of a sphere. Name this	
quantity which is multiplied by 2 pi to find the	
circumference of a circle.	



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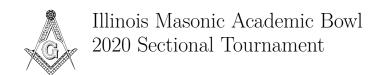
Extra Question #3: Social Studies

10 points

This person started the Manhattan Company,	Aaron <u>Burr</u>
purportedly to improve drinking water, though it	
became a major bank that is the earliest	
predecessor firm of J. P. Morgan Chase. This	
person had controversial negotiations with the	
British Minister to the United States, Anthony	
Merry, and teamed up with General James	
Wilkinson. Wilkinson, however, contacted President	
Thomas Jefferson, leading to this person being	
arrested for treason. The Twelfth Amendment was	
passed after it was difficult to break a tie between	
this person and Thomas Jefferson. This person was	
Jefferson's first vice president. Name this person	
who, in an 1804 duel, killed Alexander Hamilton.	

Extra Question #4: Science

At the World's Columbian Exposition in 1893, this	Nikola <u>Tesla</u>
person promoted interest in induction motors via a	
demonstration using copper in the shape of an egg	
that stood on its end in a rotating magnetic field.	
Another device developed by and named for this	
person can be used to light a fluorescent light bulb	
that is not plugged in. That device is often used in	
demonstrations because its discharge looks like	
lightning. The S.I. unit named after this person is a	
weber per square meter and is used to measure the	
strength of a magnetic field. Identify this	
Serbian-American inventor of a namesake "coil",	
who worked with Westinghouse Electric to	
popularize alternating current.	



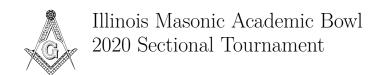
Round 4 Extra Section Toss-up Questions

Extra Question #5: Fine Arts

10 points

One composer from this country wrote a song for 48 string instruments that has very little traditional playing and was used in the movies *The Exorcist* and *The Shining*. Though this country is not Japan, that composer wrote *Threnody to the Victims of Hiroshima* in addition to *Polymorphia*. A pianist from this country wrote the opera *Manru* years before becoming its prime minister in 1919. This country is the origin of mazurkas and polonaises. A composer who grew up in this country wrote the *Fantaisie-Impromptu* and *Minute Waltz*. Name this country that was the birthplace of Krzysztof Penderecki [SHIS-tawff pen-duh-RETZ-kee], Ignacy Paderewski [ig-NAHT-sih pah-dur-EV-skee], and Frédéric Chopin ["show-pan"].

(Republic of) **Poland** [or (Rzeczpospolita) **Polska**]



Extra Question #6: Science

10 points per part

This	s artery ascends as it leaves the left ventricle of	
the	heart.	
1	Name this largest artery in the human body.	<u>aorta</u>
2	The aorta goes through an opening in this	<u>diaphragm</u>
	muscle to get from the thoracic [thor-ASS-ik]	
	cavity to the abdominal cavity.	
3	The aorta then splits to form these arteries, one	(common) <u>iliac</u> arteries
	on each side, that go towards the pelvis and	
	legs. Give a single answer.	

Extra Question #7: Science

Cell	s were discovered by looking at this substance.	
1	Name this substance that is taken from the	cork
	outer bark of a type of oak tree and is often	
	used to make stoppers for bottles. Give a	
	one-word answer.	
2	Cork is a type of this layer of bark near the	(cork) <u>cambium</u>
	phloem ["FLOW-um"].	
3	This adjective describes cambium that produces	unifacial cambium
	xylem [ZY-lum] towards the interior but not	
	phloem ["FLOW-um"] to the exterior.	



Extra Question #8: Social Studies

10 points per part

Mar	tín Vizcarra became the president of this	
cour	ntry when Pedro Pablo <mark>Kuczynski</mark>	
[koc	-CHIN-skee] resigned in the middle of several	
corr	ruption scandals.	
1	Name this country that contains several	(Republic of) Peru [or
	locations important to the Inca people,	(República del) Perú]
	including Cusco [KOOS-koh] and Machu Picchu	
	[MAH-choo PEE-choo].	
2	This person, who is also considered the	José (Francisco) de <u>San</u>
	liberator of Argentina and Chile, declared	Martín(y Matorras)
	Peru's independence in 1821. This person met	
	with Simón Bolívar the next year.	
3	Due to a secret alliance, Peru joined Bolivia	War of the Pacific [or
	during this war against Chile. It is sometimes	Guerra del Pacífico]
	called the Saltpeter War.	_

Extra Question #9: Social Studies

This	s name was shared by a ninth-century leader	
and	a leader who was in power from 976 to 1025.	
1	Give this name held by an emperor who	Basil (II)
	defeated Bardas Skleros and later Bardas	
	Phokas, and whose continued victories gave him	
	the nickname "Bulgar-Slayer".	
2	Basil the Bulgar-Slayer led this empire that was	Byzantine Empire [accept
	originally the Eastern Roman Empire.	Byzantium]
3	When the Byzantine Empire temporarily lost	Nicaea [ny-SEE-uh]
	control of its capital in 1204, Theodore I	[prompt on <u>Iznik</u>]
	Laskaris set up an empire in this city. This city	
	was the site of a council in 325 overseen by	
	Constantine.	