

**ACF Winter 2010: Temporary Autonomous Zone**

**Edited by Andrew Hart, Rob Carson, Trevor Davis, Dennis Jang, and Eric Mukherjee**

**Packet by Eden Prairie High School (Gaurav Kandlikar, Neil Fitzgerald, Tony Leng, and Robin Heinonen) and Maryland B (Jeff Amoros, Logan Anbinder, Alex Gran, Monica Lynne, Paul Marchsteiner, and Will Wieprecht)**

**Tossups**

1. Schnittke used minor ninth and major seventh intervals extensively in his concerto for this instrument, which he wrote for Yuri Bashmet. Walton's concerto for this instrument includes many minor sixths, and ends in an ambiguous A major/minor chord. The first known concerto for this instrument is in G major and is by Telemann. Tibor Serly edited and completed Bartók's concerto for it after he died, after which it was premiered by William Primrose. *Der Schwanendreher* is a concerto for this instrument by Hindemith, himself a virtuoso of it, while Paganini refused to play the solo part in Berlioz's *Harold en Italie* on this instrument. For 10 points, name this string instrument, music for which is written in alto clef and whose size is slightly larger than that of a violin.  
ANSWER: violas
2. A lesser-known version of this type of observance is called Hemdat ha-Yamim, and takes place on the holiday of Tu Bishvat. Songs commonly sung during this observance include "Had Gadya" and "Daiyenu." Steps of its most well-known version include urchatz, the ritual washing of the hands, and maror. Like Yom Kippur, this ritual is concluded with the words "Next year in Jerusalem," after the afikoman is found. This ritual features the discussion of the Four Sons, the recitation of the Four Questions, and the drinking of four cups of wine, which are symbolic of the four distinct redemptions promised by God to the Hebrews in the book of Exodus. For 10 points, the consumption of matzah highlights this ritual Jewish meal, conducted on the first and second days of Passover.  
ANSWER: seder [do not accept "Passover" or "Pesakh"]
3. The speaker of this work asks its addressee to "endure not yet / A breach, but an expansion, / Like gold to aery thinness beat" after earlier expressing a desire to "melt, and make no noise." This poem's speaker criticizes those "whose soul is sense" and who engage in "dull sublunary lovers' love," arguing that while "Moving of th' earth brings harms and fears," the "trepidation of the spheres" is innocent. Its addressee's soul is compared to "the fix'd foot" around which the speaker must "obliquely run," and its speaker notes that "thy firmness makes my circle just / And makes me end where I begun." For 10 points, identify this poem that depicts a pair of lovers using the metaphysical conceit of a compass, a work of John Donne that urges no grieving upon parting.  
ANSWER: "A Valediction: Forbidding Mourning"
4. This ruler's chief justice was Shigi Qutuqu, and he also appointed the minister Yelü Chucai. An account of travels to this ruler's court was published as the *Journey to the West* of the Taoist monk Kiu Chang Chun. This promulgator of the Yasa law code was served by the general Jebe, who died soon after a victory at the Battle of the Kalka River. A prime source for this ruler's life is a *Secret History*, and he rose to power by allying with the Kerait ruler Toghrul before fighting a power struggle with Jamuka. This ruler conquered the Khwarezm Empire and invaded the Tangut kingdom of Western Xia. This man's general Subotai would go on to serve his son and successor, Ögödei. For 10 points, name this conqueror, born Temüjin, who united the steppe tribes and founded the Mongol Empire.  
ANSWER: Genghis Khan [or Chinggis Khan or other reasonably close answers; accept Temüjin before it is read]
5. In *Drosophila*, the fuzzy onions gene regulates the fusion of these organelles in sperm, which creates the nebenspermi. One disease that affects these organelles results in a "salt-and-pepper" pigmentation of the retina. In another disease, these organelles take the appearance of "ragged red fibers" under a Gomori trichrome stain. In addition to the aforementioned Kearns-Sayre syndrome, the TIM/TOM complex sees the translocation of proteins into them. Enzymatic abnormalities in these organelles can result in significant oxidative stress, and cytochrome C is found within these structures. It contains inner compartments called cristae. For 10 points, name these organelles with namesake matrilineal DNA, known as the "powerhouse" of the cell.  
ANSWER: mitochondria [or mitochondrion]

6. Critics argued that this thinker treated organizations such as the UN and WTO as voluntary organizations, and not ones that are organized internally, in his last major work. He discussed the extent to which liberal democracies can deal with political arguments based on moral doctrines in "The Idea of Public Reason Revisited" and *Political Liberalism*. This author of *The Law of Peoples* wrote that social system should not "encourage propensities and aspirations it is bound to repress and disappoint," in his magnum opus, which suggests that liberalist and socialist egalitarian outlooks can coexist and introduces the "difference principle." Criticized by Michael Sandel and Robert Nozick, this is, for 10 points, which author who discussed the "veil of ignorance" in his *A Theory of Justice*?

ANSWER: John Rawls

7. A "new" version of this song features the chorus "can't nobody take my shine, can't nobody break my stride," and appears on the album *Muscles*. This song talks of "walking around like you're Pretty Boy Floyd," and the singer claims he's got "Neon King Kong standin' on my back." This song claims "a child is born with no state of mind, blind to the ways of mankind" and sees the singer declare "I swear I might hijack a plane." This song's first verse opens with the sound of shattering glass before the singer reports "broken glass, everywhere." In this song's chorus, Melle Mel claims "it makes me wonder how I keep from going under" after saying "don't push me, 'cause I'm close to the edge." For 10 points, name this best known song of Grandmaster Flash and the Furious Five.

ANSWER: "The Message"

8. This enemy of the Military Council for National Salvation, who was supported by the KOR, negotiated a twenty-one-point agreement with Edward Gierek. After holding his most powerful position, this author of *The Struggle and the Triumph* and *A Way of Hope* co-founded the AWS, and while in power he declared a "war at the top." This enemy of the PZPR won concessions at his nation's round-table talks. He implemented Leszek Balcerowicz's brand of "shock therapy," and he was defeated in a re-election bid by Alexander Kwasniewski in 1995. Earlier, he helped lead an organization that began in the Lenin Shipyard in Gdansk. For 10 points, name this Polish winner of the 1983 Nobel Peace Prize for his work with the Solidarity trade union.

ANSWER: Lech Walesa

9. Seas of calcite predominate during times of low concentration of this element. The NIMS probe discovered that Ganymede has a sulfate of this element, which is also used to treat eclampsia. Its molten form is used to make metallic titanium in the Kroll process. The active site of rubisco contains a carbamylated lysine attached to an ion of this element. Its cationic form is used to stabilize the product of PCR, and it is also prevalent in certain reagents in a Schlenck equilibrium. It is found in Grignard reagents as well as coordinated to the porphyrin ring of chlorophyll. For 10 points, name this element with atomic number 12 and symbol Mg.

ANSWER: magnesium [accept Mg before said]

10. One work created by a member of this movement depicts several men in blue examining the titular creatures. This movement spawned *Horse Fair*, and one of its practitioners painted two nude figures in a lake and one in the trees surrounding the lake in his *Bathers*. Other works by that member of this group are part of the series *Die Zigeuner Mappe*. This movement's founder painted a work that depicts a nude woman on a blue background holding the titular "Japanese Umbrella." Another painting from this movement, which included Max Pechstein and Otto Mueller, depicts two bare breasted women performing the titular *Dance Around the Golden Calf*. For 10 points, name this German expressionist movement that included such artists as Ernst Kirchner and Emil Nolde.

ANSWER: Die Brücke [or The Bridge]

11. This man criticized his country's involvement in foreign wars in an allegorical fable called *The Ox*. He demanded compensation for the family of Jacob Kaiser and forced another group to end its alliance with Austria in an armistice that he negotiated to end a war in which no battles occurred. This man executed Felix Mantz, a founder of a group known as his nation's Brethren. That group later became the Anabaptists, whom this man attacked with tracts like *Tricks of the Catabaptists*. He was succeeded by Heinrich Bullinger after his death during the Second Kappel War. His denial of the real presence of Christ in the Eucharist caused his split with Martin Luther at the Marburg Colloquy. For 10 points, name this Swiss Protestant reformer who preached at Zürich.

ANSWER: Huldrych Zwingli [or Huldreich Zwingli; or Ulrich Zwingli]

12. At one point in this work, the protagonist walks into a lumber room, where he sees a Whipper preparing to flog the two warders whom the protagonist complained about due to their behavior during an earlier interrogation. Later in this work, the protagonist is made to escort an Italian around the city, but is told by Leni just before leaving his office, "They're goading you." The novel ends with the protagonist, who had purchased three identical paintings from Titorelli, waving to a figure in a distant house while being stabbed to death in a quarry on the outskirts of his town. It was edited by Max Brod after its author's death. For 10 points, name this novel that describes the titular proceeding concerning an undisclosed crime committed by the protagonist, Josef K., written by Franz Kafka?

ANSWER: *The Trial* [accept *Der Prozess*]

13. One paradox concerning this quantity, in which one calculation places it in the numerator but a formula for an identical quantity places it in the denominator, was raised by Peierls. A complex version of this quantity adds  $i$  plus the extinction coefficient, while one formula sets its square equal to a rational equation in terms of the coefficients  $B_1$  through 3 and  $C_1$  through 3. This quantity can be negative in artificial metamaterials. The arctangent of the ratio of this quantity for two materials gives Brewster's angle. Along with the sines of the angle of incidence and this quantity's namesake angle, it is used in Snell's Law. For 10 points, name this quantity that describes the speed of light in a medium, the namesake of a certain light-bending effect.

ANSWER: index of refraction [prompt on n]

14. William B. Franklin led a charge from Bowling Green Road during this battle, while casualties of this battle included Maxcy Gregg and Thomas Cobb. The "second battle" at this location pitted Jubal Early against John Sedgwick, who was attempting to relieve the pressure on Joseph Hooker during the Battle of Chancellorsville. Though it isn't Antietam, during the first battle at this location, Prospect Hill and the Sunken Road were key defensive points. Before this battle, the losing commander spent weeks waiting for a pontoon train to arrive and build bridges that would allow him to assault Marye's Heights across the Rappahannock River. For 10 points, name this decisive victory of Robert E. Lee over Ambrose Burnside in northern Virginia.

ANSWER: Battle of Fredericksburg

15. In one of this man's works, the armies of the title figure march all the way to the Amu Darya, where they defeat the Hephthalites, and then continue on to defeat the Kambojas. The title character of another of his works, which is written in a meter called "slow-stepper," is sent to find "the supremest woman from the Creator's workshop gone" and is advised to disperse mountain monsters with "pelting hail" before passing through the Swan-gate on the way to Mount Kailasa. This author of *The Dynasty of Raghu* and a poem about a servant of Kubera wrote a play whose title character loses the signet ring that allows her husband Dushyanta to identify her. For 10 points, identify this Sanskrit-language author of "The Cloud Messenger" and *The Recognition of Shakuntala*.

ANSWER: Kalidasa

16. A specific type of these entities  $x$  obey a relation in which  $x$  squared divides the  $x$  minus Legendre symbol  $x$  over fifth Fibonacci number. Another type satisfies the conditions of Wolstonholme's theorem for the fourth power, though all of them satisfy that result for the third power. If  $x$  is one of these and  $2x$  plus 1 is also, they are named for Germain. In addition to the Wall-Sun-Sun ones, these numbers divide themselves minus one factorial plus one according to Wilson's theorem. Their count is asymptotic to  $x$  over the natural log of  $x$ , and Goldberg's hypothesis states that every even number can be expressed as the sum of two of these. Fermat and Mersenne give their names to varieties of, for 10 points, what kind of number whose only factors are one and itself?

ANSWER: prime numbers

17. One of this man's protagonists dies when he blows up his palace after his mother Fides sings the aria "Ah my son." In Act III of another of this composer's operas, a hurricane begins to rise as Nelusko sings a ballad about the monster Adamastor. The protagonist of that opera by this man sings "O Paradise!" upon arriving in Selika's homeland. This composer of operas about John of Leyden and Vasco da Gama created a work in which Bertram summons a ballet of debauched nuns to tempt the title character, who is engaged to Isabelle. Another of his operas centers on Raoul de Nagis and culminates in the St. Bartholomew's Day Massacre. For 10 points, name this composer of such operas as *Le Prophete*, *L'Africaine*, *Robert le Diable*, and *Les Huguenots*.

ANSWER: Giacomo Meyerbeer

18. Later thinkers built on this work's assertion that a concept is "something universal which serves as a rule." A notable commentary on this work was written by the author of *Philosophy of As If*, Hans Vaihinger. This work describes how one gains experience from creating a unity out of a manifold, and it presents time and space as the two pure forms of intuition. Of quantity, of quality, of relation, and of modality are the divisions into which this work places the twelve categories of understanding. It attempts to establish the necessity of certain propositions through the transcendental ideas. This work rejects the possibility of metaphysics, though it does show how other synthetic a priori propositions are possible. For 10 points, name this Immanuel Kant work, the first of his critiques.  
ANSWER: The Critique of Pure Reason [or Kritik der reinen Vernunft]
19. One character in this work accidentally sets fire to his house trying to burn broom sedge. A trip to Augusta in this novel results in three characters mistaking a brothel for a hotel. Though the aim of that trip in this work was to sell firewood, they were only able to obtain \$3 for food by selling a spare tire. One character in this work saw his wife replaced by a hare-lipped girl who had earlier flirted with him to obtain winter turnips. An automobile in this work was purchased in Fuller by Bessie for her marriage to 16-year-old Dude, and led to the death of both an African-American man and Grandmother Lester. Jeeter lives with his wife Ada, and his daughter, Ellie-May, in the destitute titular locale of this work. For 10 points, name this novel about a sharecropping family by Erskine Caldwell.  
ANSWER: Tobacco Road
20. The *Solarljod* claims that this figure's eldest daughter is called Radvör and that his youngest is called Kreppvör. Loki insulted this god by saying that the daughters of Hymir relieved themselves in his mouth. This figure's father-in-law once captured Loki as a giant eagle, forcing Loki to lure Idunn into Thrymheim. This figure was exchanged with Hoenir to end the Aesir-Vanir War. The wife of this god was once made to laugh by the efforts of Loki and a female goat. He separated from his wife because she could not get used to living in Nóatún due to the screeching of the gulls after she selected this god for his beautiful feet. For 10 points, name this father of Freyr and Freya and husband of Skadi, the Norse god of wealth and seafaring.  
ANSWER: Njord [or Njörðr; or Njoerd; or Njorth]
21. The lesser end of this organ extends towards the spleen and is placed over the left kidney. The ascending portion of the transverse meso-colon covers the convex front part of the body of this organ. The splenic artery and vein can be found in the thick upper border of this organ, through which the Canal of Wirsung extends from the left to right of the substance of this organ. Its secretions include chymotrypsin and trypsin, which help break down proteins, and the sphincter of Oddi controls the release of liquids through the Ampulla of Vater, which contains secretions from the gallbladder and this organ. The alpha cells of regions of this organ secrete glucagon, while the beta cells secrete insulin. For 10 points, name this organ, home to the islets of Langerhans.  
ANSWER: pancreas

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### Bonuses

1. While governor of Louisiana, he created the Bureau of Criminal Identification, a police force that reported directly to him and could make arrests without warrants. For 10 points each:  
[10] Name this politician known as the Kingfish, who was the basis for Willie Stark in the novel *All the King's Men*.  
ANSWER: Huey Pierce **Long**  
[10] Huey Long promoted this program of money redistribution during his tenure in the U.S. Senate, which he claimed would provide five thousand dollars for every poor family.  
ANSWER: **Share Our Wealth** [prompt on **SOW**]  
[10] This anti-Semitic minister and friend of Huey Long co-led the Share Our Wealth movement. He was also involved with William Pelley's fascist Silver Shirts.  
ANSWER: Gerard Lyman Kenneth **Smith**
2. It has been observed among Easter Islanders and Pitcairn Island natives. For 10 points each:  
[10] Name this theory that describes the lower genetic variation observed in small groups that splinter off a larger population, the result of inbreeding among the colony population.  
ANSWER: the **Founder** effect  
[10] This author of *Systematics and the Origin of Species* advocated the founder effect within the genetics community, using the work of geneticists such as Sewall Wright.  
ANSWER: Ernst **Mayr**  
[10] Mayr created this theory of speciation, a form of allopatric speciation in which one population is much smaller than the other.  
ANSWER: **peripatric** speciation
3. This poem ends with the narrator throwing his body headlong into a river and praying, "Let it be as my Prince desires," and it also describes an earthly and heavenly Jerusalem. For 10 points each:  
[10] Name this fourteenth-century allegorical poem that sees the narrator falling asleep and meeting a woman he identifies with Mary, the personification of a lost object that "through grass" has fallen to "earthen plot."  
ANSWER: "**Pearl**"  
[10] Besides the "Pearl," the "Pearl" poet probably also authored this other work which sees one of the titular figures tempted by Lady Bertilak before receiving a scratched neck instead of a beheading for accepting a silk girdle.  
ANSWER: Sir **Gawain and the Green Knight**  
[10] The use of the word "overmod" is usually rendered as "too much heart" in this Old English poem that was not written by the Pearl Poet. It describes a skirmish between Vikings and Aethelred the Unready on a beach.  
ANSWER: "The **Battle of Maldon**"
4. Near its end, Karen attempts to break up with her fiancé Doctor Joe Cardin, and this news results in the suicide of Lily Mortar's niece. For 10 points each:  
[10] Name this play set in the Wright-Dobie School for Girls and based on a similar event in 1810 in Edinburgh.  
ANSWER: *The **Children's Hour***  
[10] *The Children's Hour* was written by this American playwright, who is better known for her play about Regina Giddens and her ailing husband, Horace, in *The Little Foxes*.  
ANSWER: Lillian **Hellman**  
[10] This play by Hellman involves Kurt Muller's anti-Fascist activities and his murder of Count de Brancovis, who had been staying with the Farrellys in Washington D.C..  
ANSWER: **Watch on the Rhine**

5. This leader had military success against the Samnites during the Social Wars, and he was known to get angry and strangle people with his bare hands. For 10 points each:
  - [10] Name this man, who won the First Mithridatic War before landing at Brindisi and winning the Battle of the Colline Gate, allowing him to carry out proscriptions in Rome.  
ANSWER: Lucius Cornelius **Sulla** Felix
  - [10] This man left Rome after being targeted by Sulla's proscriptions and participated in the siege of Mytilene. He later crossed the Rubicon with his army and, much like Sulla, marched on Rome to become dictator.  
ANSWER: Gaius Julius **Caesar**
  - [10] This man served as Sulla's proquaestor during the Mithridatic War. He went on to be the first Roman commander in the Third Mithradtic War, winning at Cabira and defeating Tigranes the Great before being replaced by Pompey.  
ANSWER: Lucius Licinius **Lucullus**
  
6. It follows Tom Rakewell, the beneficiary of the miserly ways of his recently deceased father, as he quickly spends his sizable inheritance. For 10 points each:
  - [10] Identify this series of paintings that see Tom reject his pregnant fiancée, Sarah Young, and get robbed by whores during an orgy, after which he winds up in Fleet Prison and Bedlam.  
ANSWER: *The **Rake's Progress***
  - [10] *The Rake's Progress* is a series by this English painter of *The Harlot's Progress* and *Marriage a la Mode*.  
ANSWER: William **Hogarth**
  - [10] In this other Hogarth series, Tom Nero tortures a dog, beats his horse, and murders his pregnant lover Ann Gill, after which he is hanged and publically dissected.  
ANSWER: *The **Four Stages of Cruelty***
  
7. It is a constant of proportionality in a namesake law that relates the total energy radiated per unit surface area of a blackbody per unit time to the temperature raised to the fourth power. For 10 points each:
  - [10] Name this doubly eponymous physical constant, symbolized sigma.  
ANSWER: **Stefan-Boltzmann** constant
  - [10] This other law of heat transfer with a namesake displacement constant equal to 2.898 times ten to the minus three implies that there is an inverse relationship between the wavelength of the peak of a blackbody's emission spectrum and its temperature.  
ANSWER: **Wien**'s Displacement Law [do not accept "Wien's Distribution Law"]
  - [10] This quantum system can be used to derive Wien's law using Bose-Einstein statistics when you assume the particles are massless. This system consists of a bunch of noninteracting particles confined to a container.  
ANSWER: **Gas in a Box**
  
8. The nobleman Meriamun sets out to learn all he can about the titular heretic pharaoh of this man's novel *Akhenaten, Dweller in Truth*. For 10 points each:
  - [10] Name this author of a novel who allegorized the founding of the Abrahamic religions in *Children of Gebelawi*. He also wrote a novel that features characters like the café owner Kirsha and the barber Abbas, *Midaq Alley*.  
ANSWER: Naguib **Mahfouz**
  - [10] This trilogy of Mahfouz novels centers on the family of El-Sayyid Ahmad Abdel Gawad and consists of *Palace Walk*, *Palace of Desire*, and *Sugar Street*. It's named for the Egyptian city in which it is set.  
ANSWER: The **Cairo** Trilogy
  - [10] Shortly after being released from prison, Said Mahran accidentally shoots two innocent people while seeking vengeance against his former colleague Rauf Ilwan and his ex-wife's new husband in this Mahfouz novel.  
ANSWER: *The **Thief and the Dogs*** [or ***El-lis's wa el-kilab***]

9. The group "Los Madres de Plaza de Mayo" continues to condemn the actions of this conflict. For 10 points each:  
 [10] Name this conflict that lasted from 1976-1983 during which "Los desaparecidos" were dumped into the Rio de la Plata under the direction of General Jorge Rafael Videla.  
 ANSWER: **Dirty** War [or La Guerra **Sucia**]  
 [10] The Dirty War occurred in this South American nation, which has featured presidents like Juan Manuel de Rosas and Bartolomé Mitre, and whose national hero is José de San Martín.  
 ANSWER: **Argentina**  
 [10] This name is given to the kidnapping of schoolchildren in their sleep for protesting against high bus fares that occurred during the Dirty War.  
 ANSWER: The **Night of the Pencils** [or La **Noche de los Lapices**]
10. He considered the synthetic chord consisting of C, F-sharp, B-flat, E, A, and D to reveal "what is...beyond the mind of man to conceptualize." For 10 points each:  
 [10] Name this mystical and synesthetic Russian composer of *The Poem of Ecstasy*, *The Divine Poem*, the unfinished *Mysterium*, and a lot of very difficult piano music.  
 ANSWER: Alexander Nikolayevich **Scriabin**  
 [10] Scriabin wrote a "poem of fire" loosely based on the life of this mythic character, using a *clavier à lumières*, an organ that displayed the colors that he associated with the notes being played. Beethoven wrote a ballet about this figure's "creatures."  
 ANSWER: **Prometheus** [accept **Prometheus**: *The Poem of Fire*]  
 [10] Scriabin's early piano work shows the strong influence of this Polish composer of *Fantasia-Impromptu*, the *Revolutionary Waltz*, and many preludes, mazurkas, and nocturnes.  
 ANSWER: Frédéric François **Chopin**
11. The originator of this doctrine used the example of trying to determine whether the word Gavagai truly means "rabbit." For 10 points each:  
 [10] Name this philosophical thesis, which argues there is no interlinguistic meaning, since there are always multiple possible translation systems that fit the available evidence.  
 ANSWER: **Indeterminacy** of Translation Thesis  
 [10] This Harvard philosopher wrote about the Indeterminacy of Translation in his *Word and Object*. He also wrote *Ontological Relativity* and lends his name to computer programs that output their source code.  
 ANSWER: Willard Van Orman **Quine** [do not accept "William Van Orman Quince"]  
 [10] Quine also wrote this essay in which he attacks the analytic-synthetic distinction and the position of the logical positivists.  
 ANSWER: "**Two Dogmas of Empiricism**"
12. This almond-shaped division in the temporal lobe is considered part of the limbic system. For 10 points each:  
 [10] Name this portion of the brain that performs a primary role in processing of emotional reactions, damage to which can cause a lack of fear in a subject.  
 ANSWER: **amygdala**  
 [10] This anterior part of the frontal lobes is in charge of executive function, including determining consequences of actions, working towards a specific goal, and control of socially unacceptable actions.  
 ANSWER: **prefrontal cortex** [accept **PFC**]  
 [10] This midbrain structure is part of the basal ganglia, and Parkinson's disease is caused by the death of neurons in this structure that produces dopamine.  
 ANSWER: **substantia nigra**

13. Name some members of the Chicago school of economics, for 10 points each.
- [10] This monetarist was booed when receiving his Nobel Prize due to his controversial position as advisor to Augusto Pinochet. He wrote *A Monetary History of the United States*, *Free to Choose*, and *Capitalism and Freedom*.  
ANSWER: Milton **Friedman**
- [10] This economist is best known for developing the theory of rational expectations and the consequent policy ineffectiveness proposition, which states that government intervention will be useless if people expect it.  
ANSWER: Robert Emerson **Lucas**, Jr.
- [10] This economist, sometimes considered the founder of the Chicago school, had Milton Friedman, George Stigler, and others as students. His publications include *Risk, Uncertainty, and Profit*, which distinguishes between insurable and uninsurable risk.  
ANSWER: Frank Hyneman **Knight**
14. He seduced a cloud in the shape of a goddess, and the resultant son Centaurus was the first of the centaurs. For 10 points each:
- [10] Name this king of the Lapiths who murdered his father-in-law and was pardoned by Zeus for that crime, but not for a subsequent one, for which he was strapped to a burning wheel.  
ANSWER: **Ixion**
- [10] Ixion was condemned to Tartarus, as is this man, who sits near sumptuous food and drink that always barely evade his reach when tries to consume them.  
ANSWER: **Tantalus**
- [10] Ixion was the son of either Ares or this former king of the Lapiths. When this man's daughter was seduced by Apollo, he burned down Apollo's temple at Delphi. That turned out to be a bad idea, as Apollo then killed him.  
ANSWER: **Phlegyas**
15. Its usefulness in creating a cyclohexene ring with very little energy has led it to be considered the “Mona Lisa” of organic chemistry reactions. For 10 points each:
- [10] Name this doubly-eponymous four-plus-two cycloaddition reaction in which a conjugated diene reacts with a dienophile.  
ANSWER: **Diels-Alder** reaction
- [10] This configuration is the preferred state of the transition state in the Diels-Alder reaction, and is most often formed when dealing with cyclic dienes and dienophiles.  
ANSWER: **endo** configuration
- [10] Speaking of pericyclic reactions, an i, jth type of this general class of reactions sees the migration of a sigma bond from position i to position j of a conjugated pi system.  
ANSWER: **Sigmatropic** rearrangement [prompt on partial]
16. The early part of this queen’s reign was dominated by the Duke of Marlborough and Sidney Godolphin. For 10 points each:
- [10] Name this British queen who succeeded William III and ruled from 1702 to 1714.  
ANSWER: Queen **Anne**
- [10] Due to Anne’s lack of surviving children, parliament passed this 1701 act, which established her heir as Sophia of Hanover. This act still governs the British succession.  
ANSWER: Act of **Settlement**
- [10] The latter half of Anne’s reign was marked by the influence of this Tory Chancellor of the Exchequer. This man was notably stabbed by the Marquis de Guiscard, and he founded the South Sea Company.  
ANSWER: Robert **Harley**, Earl of **Oxford** [accept either underlined part]



17. Doctor Dionysus Genoni arranges a meeting between the central character and his former lover, dressed as Donna Matilda Spina, in this play. For 10 points each:  
 [10] Name this play, which sees the title character, who had fallen off a horse in a festival, stab and kill Baron Tito Belcredi, after which the title character has to continue to fake his insanity.  
 ANSWER: Henry IV [or Enrico IV]  
 [10] This Italian playwright of *Enrico IV* also wrote a work in which Father argues that he and the rest of his family members were incomplete creations in his *Six Characters in Search of an Author*.  
 ANSWER: Luigi Pirandello  
 [10] This other Pirandello work sees an artist commit suicide, after which Delia Morello and Michele Rocca separate. Both this play and *Tonight we Improvise* are among Pirandello's "Theater within the theatre" plays.  
 ANSWER: Each in His Own Way [or Ciascuno a suo modo]
18. Name some parables of Jesus, for 10 points each.  
 [10] This parable found in Luke tells the story of a Jewish man on the way to Jericho who is beaten, left for dead, and then ignored by a priest and a temple assistant before being aided by the titular neighborly man.  
 ANSWER: The Parable of the Good Samaritan  
 [10] This parable from Matthew details a merchant who sells all he has to buy the titular object, which is a stand-in for the Kingdom of Heaven. One name for this parable is shared with a prominent work of Mormon scripture.  
 ANSWER: The Parable of the Pearl [accept The Pearl of Great Price; or anything reasonable involving Pearl]  
 [10] Similar in its meaning to the story of the Prodigal Son, this parable from Chapter Fifteen of Luke tells of a woman who sweeps her house in an effort to find the titular silver object.  
 ANSWER: The Parable of the Lost Coin
19. Name some things regarding mountain passes from geography, for 10 points each.  
 [10] This mountain pass cuts through the Hindu Kush at Landi Kotal, linking Pakistan and Afghanistan.  
 ANSWER: Khyber Pass  
 [10] The Khardung La is a pass in this disputed territory, fighting in which has seen many skirmishes over the Siachen Glacier. Wikipedia claims that the Bactrian camels that attempt to scale the pass in this region are "mute witnesses to history."  
 ANSWER: Kashmir [accept Jammu and Kashmir]  
 [10] This pass between Austria and Italy is the easiest through the Alps; traversing it takes one from Sterzing to Matri, or vice versa.  
 ANSWER: Brenner Pass [or Passo de Brennero]
20. Many of his works are collected in the Art Gallery of Ontario. For 10 points each:  
 [10] Name this sculptor of *West Wind* best-known for his massive smooth bronze reclining nudes.  
 ANSWER: Henry Moore  
 [10] Moore's reclining nudes were inspired by a statue he saw at the Louvre representing the Toltec reclining figure Chac-Mool, which is also the namesake of a short story by this author of *Terra Nostra* and *Christopher Unborn*.  
 ANSWER: Carlos Fuentes  
 [10] Moore also created a series of paintings depicting people finding shelter from air raids in the subway system of this city, which is also home to the Cortauld and Tate galleries.  
 ANSWER: London
21. It contains W Virgins and Z Z Ceti stars, and most stars that are more massive than the Sun enter this area of the Hertzsprung-Russel Diagram. For 10 points each,  
 [10] Name this narrow vertical strip at the top center of the Hertzsprung-Russel diagram that also contains R-R Lyrae variables.  
 ANSWER: instability strip  
 [10] Examples of these variable stars that also lie in the instability strip include Mekkuda, which is the Zeta star in Gemini, and they are often used as indicators of distance in space.  
 ANSWER: Cepheid variables  
 [10] Cepheid variables can be used as standard candles because they have an intrinsic relation between their periods and this other quantity.  
 ANSWER: luminosity