UIUC Earlybird 2006 - Round 8
(Tossups by UIUC Academic Buzzer Team)

1. This person's works Eugenia and Bethena probably bemoan his bad fortune with wives. Though this artist's A Guest of Honor is no longer extant, the Pulitzer Prize-winning Treemonisha has experienced a considerable revival, though its initial failure and syphilis cost this composer his sanity. Compositions in his characteristic style include the "Paragon", "Magnetic", "Weeping Willow", and "Pineapple". FTP, name this writer of "Elite Syncopations," "The Entertainer," and "Maple Leaf Rag;" an American composer known as the "king of ragtime."
ANSWER: Scott **Joplin**

2. This being's daughter Pyrrha married Deucaleon, thereby surviving the deluge. After being fashioned from clay, this person was given a gift by each of the gods and was given in marriage to Epimetheus, the brother of Prometheus. With a name meaning "all-gifted," she was the first woman in Greek myth. FTP, name this Greek woman who is most famous for the gift given her by Zeus, her namesake box, which she opened, releasing all of life's horrors.
ANSWER: **Pandora** (accept **Epimetheus** before "clay")

3. It arises from the off-diagonal terms in the fluctuation dot-product moment and, as such, is an inherently dissipative effect. It has two types, dynamic and kinematic, the latter being the former divided by the fluid density. Measured in cgs units in poise or stokes, a fluid is said to be ideal if this property is zero for it. FTP, name this fundamental property of fluid flow; the internal resistance of a fluid to flow.
ANSWER: **viscosity**

4. This person recounts a dying man's looking back on his own life in Krapp's Last Tape which, like the novel Watt, was notably not written in French. This author's novel trilogy Molloy, Malone Dies, and The Unnamable preceded his one-act play about the end of the relationship between Hamm and Clov, Endgame. FTP, name this Irish author and winner of the 1969 Nobel Prize in Literature probably known best for the absurdist Waiting for Godot.
ANSWER: Samuel Barclay **Beckett**

5. The four sections of this publication include the Extensions of Remarks and the Daily Digest, the former of which was once the appendix and consists of remarks not actually uttered during proceedings. First published in 1879, it is published daily when its namesake body is in session. Its accuracy is sometimes at question – for example, it quoted a moving speech by Hale Boggs that it claims occurred after Boggs' death. FTP, name this publication, the official government report of all the comings and goings of the United States Congress.
ANSWER: the **Congressional Record**

6. This person's portrait was painted by Eugene Delacroix as a pendant to the portrait of his companion in 1838 and his tandem lessons with Alkan [al-KHAN] supported Alkan for many years. His many one-off genre works include the Opus Fifty-Seven Berceuse, Opus Forty-Nine Fantasia, and Opus Sixty Barcarolle, but this composer is much better known for his twenty-six preludes, four impromptus, and especially fifty-five mazurkas and sixteen polonaises. FTP, name this Polish-born Romantic composer of works for piano and lover of George Sand.
ANSWER: Frédéric Francois **Chopin** (or Fryderyk Franciszek **Szopen**)

7. This person was compelled to flee Rome in 1606 after killing a man because that man beat him at tennis. This artist's allegorical Amor Vincit Omnia is a harangue against pederasty, while works in his characteristic style include The Deposition of Christ and The Supper at Emmaus. However, this painter's tenebrism is most famously exhibited in the revolutionary The Calling of St. Matthew. FTP, name this early baroque Italian artist born Michelangelo Merisi who is known for the drastic lighting gradients in his works.
ANSWER: **Caravaggio** (accept Michelangelo **Merisi** before it's mentioned)

8. Derived by equating partial current densities for reacting species, this physical law has a ratio of activity coefficients as a crucial parameter. Derived with a simplification of Goldman's model, the standard form of this relation contains a logarithmic pre-factor of the kinetic temperature over the number density times Faraday's constant. FTP, name this equation that gives the electrode potential in terms of a standard electrode potential; a fundamental equation of electrochemistry named for a German.
ANSWER: the **Nernst** equation

9. The "Girl From Ipanema" is, ipso facto, a girl from this city of five point six million people. It has the distinction of being the only city outside Europe to have been a European capital as, in 1808, the Portuguese royal family fled here escape Napoleon's imminent siege of Lisbon. Landmarks include the thirty-eight-meter-tall statue "Christ the Redeemer" that sits atop Corcovado Mountain and the Maracanã Stadium, one of the largest soccer stadiums in the world. FTP, name this Brazilian locale, home to Copacabana beach.
ANSWER: **Rio de Janeiro** (prompt on "Rio")

10. Pencil and Paper Ready. A set of ten elements has how many subsets? This problem can be best approached as a counting problem. Every element of the set can either be in a subset or absent; thus, in a given subset, there are two possibilities for each element. FTP, what the number of subsets, equal to two to the tenth power?
ANSWER: **1024** (accept **two to the tenth** power or equivalents before "FTP")

11. This person took great advantage of his father's alliance with Tyre by working closely with its King Hiram and received Gezer as a wedding gift from a Pharaoh. This ruler overcame the intrigue of Haggith, Joab, and Adonijah by having himself anointed in his father's lifetime and "completely satisfied" the Queen of Sheba according to First Kings. FTP, name this king of Israel proverbial for his wisdom and noted for building the first Temple of Jerusalem, which was known by his name.
ANSWER: **Solomon** (or **Shlomo**)

12. Columbia professor James Shotwell initially met with one of its namesakes and suggested what would become this treaty and in the Senate it was championed by William Borah of Idaho. Problems with it stemmed from the facts that it had no means of amendment, no expiration date, and no mechanism to enforce its own provisions. FTP, identify this treaty drafted by and named for the U.S. Secretary of State and Foreign Minister of France a decade after World War I; a pact that sought to end war by rendering it illegal.
ANSWER: the **Kellogg-Briand** Pact (prompt on "Pact of Paris")

13. This person was once denied reentry into the United States because, when asked "What do you think of Karl Marx?" at customs, he replied "I have never met him, but no doubt he is a great man." He lived entirely out of the goodwill of his colleagues since he never had a home and carried all of his belongings with him in a suitcase. In his own personal lingo, children were epsilons and God was the Supreme Fascist. He was extremely prolific, in part because he frequently took amphetamines so he could put in seventeen-hour days doing math. FTP, name this eccentric Hungarian mathematician.
ANSWER: Paul **Erdős**

14. The organizer of the Autumn Harvest Uprising, he was ousted from the Kuomintang, and retreated to the country along with Zhu De. It was during the May Revolutions that this man began to learn of Marxist ideologies; this led him to lead the so-called Long March from 1934. Late in life, he attempted to break away from the Russian model by first promoting, then crushing the Cultural Revolution. FTP, name this man, the architect and first leader of the People's Republic of China.
ANSWER: **Mao** Tse-Tung (or **Mao** Zedong)

15. This document's Preamble features four goals, including "saving succeeding generations from the scourge of war" and it has 111 articles among nineteen chapters. Article Sixty-One established the fifty-four-member Economic and Social Council, while Article Ninety-Two established the International Court of Justice. FTP, name this document that established a major international organization currently headed by Kofi Annan.
ANSWER: the **U**nited **N**ations **Charter**

16. In 1768, this person was accused of transporting contraband goods on the Liberty and a group of citizens burned the ship in protest. He took over as president of the Second Continental Congress after Peyton Randolph resigned, but retired a year later due to health problems. After performing his most famous action, he commented "The British ministry can read that name without spectacles; let them double their reward." FTP, name this man, the first signer of the Declaration of Independence.
ANSWER: John **Hancock**

17. The narrative voice of this collection's first work addresses the reader in the first line, calling him a hypocrite, his likeness, and his brother; it later accuses the reader of reaching for fantasy. This work is made up of three sections, including "Wine, Death, and Revolt," where the speaker uses wine to bring together his spleen world and ideal world. FTP, name this most famous poetry collection by Charles Baudelaire.
ANSWER: The **Flowers of Evil** (or Le **Fleurs du Mal**)

18. This person claims to have no politics to speak of as he is a Liberal Unionist. In Hertfordshire, this character is known by his real name, but he pretends to have a younger brother in London whom is really himself. Left in a handbag in a cloakroom as a baby, he was found by Thomas Cardew, who made him guardian to his granddaughter, Cecily. He encounters trouble when he falls for his friend's cousin, as she is in love with the name of his and Algernon's alter ego. FTP, name this protagonist in The Importance of Being Ernest by Oscar Wilde.
ANSWER: **Jack** (**John**) **Worthing**, J. P. (accept any underlined answer; prompt on "Earnest")

19. Book 7 of Diogenes Laertius' Lives of Eminent Philosophers deals with practitioners of this way of thinking. Early practitioners included Chrysippus of Soli and Cleanthes of Assos, who were influenced by lectures delivered near a colonnade, for which this philosophy is named; those lectures were delivered by this school's founder, Zeno of Citium. FTP, name this school of philosophy prominent in ancient Greece and Rome, exemplified by the Meditations of Marcus Aurelius, and stressing perception, materialism, reason, and freedom from emotion.
ANSWER: **stoic**ism

20. This work's main character aims to become a successful writer, but his love Nina Zarechnaya leaves with his rival after his first play fails. The main character then kills the title animal and lays it at Nina's feet. Trigorin then casts Nina aside and, after she leaves Trepilov again, he kills himself. FTP, name this play by Anton Chekhov in which Trigorin likens himself to the title bird.
ANSWER: The **Seagull** (or **Chayka**)

21. This engagement began with the transfer of the control of Bohemia to ten governors, of whom seven were Catholic. During its the Danish period, Schleswig and Holstein were conquered, then handed back to Christian IV via the Treaty of Lubeck. Tilly and Wallenstein were opposed by Gustavus Adolphus, who entered the war to protect the Protestants, but was killed at the Battle of Lutzen. All these events transpired during, FTP, what war, ended by the Treaty of Westphalia in 1648?
ANSWER: the **Thirty Year**s' War

1. Name each of the following about an American composer and his works FTP.
[10] This ballet written for Martha Graham tells the story of a common wedding in rural Pennsylvania. Its most famous section is a set of variations on the Shaker hymn "Simple Gifts."
ANSWER: **Appalachian Spring**, ballet for 13 instruments
[10] This man composed Appalachian Spring, which he knew as "Ballet for Martha," along with some Music for Theater, a Lincoln Portrait, and Rodeo.
ANSWER: Aaron **Copland** [COPE-land]
[10] Copland made extensive use of variations on cowboy songs for this earlier ballet, in which the shots in a gunfight that the title character loses to Pat Garrett are depicted by various drums.
ANSWER: **Billy the Kid**, ballet

2. Answer each of the following about some constants FTP.
[10] This constant multiplies the numerical entropy to give the thermodynamic entropy; this makes sense as it has units of entopy.
ANSWER: **Boltzmann**'s constant (prompt on "k")
[10] Boltzmann's constant is equal to this other notable constant divided by Avogadro's number, which makes sense since this constant has units of energy per unit temperature per mole.
ANSWER: the **ideal gas** constant (or **universal gas** constant or **perfect gas** constant; prompt on "R")
[10] The gas constant for a particular gas is therefore related to the ratio of constant-volume and constant-pressure version of this, which C. That ratio, called the adiabatic ratio, is symbolized gamma.
ANSWER: **specific heat**s

3. Answer each of the following about a work of Shakespeare and a character therein FTP.
 [10] In this play, Sebastian, Olivia's brother is really alive and is getting ready to go to Illyria. Malvolio is discontent throughout.
ANSWER: The **Twelfth Night**
[10] This character from The Twelfth Night ends-up marrying Duke Orsino.
ANSWER: **Viola**
[10] Viola disguises herself as this page boy to spy on the court of Orsino. To the delight of just about everyone, Olivia finds Viola irresistibly attractive in this disguise.
ANSWER: **Cesario**

4. South Africa may be free, but these points are not. Answer these questions about South Africa FTPE.
[10] This city serves as the administrative capital of the country.
ANSWER: **Pretoria**
[10] Though this city is not one of the three capitals, it is the most populous in South Africa.
ANSWER: **Johannesburg**
[10] This small country is completely surrounded by South Africa.
ANSWER: **Lesotho**

5. Name each of the following people with various gifts for prophecy FTP.
[10] This complex bricolage Greek god has complete knowledge of the future; as such, he is the patron of prophecy, often gifting various mortals with it.
ANSWER: Phoebus **Apollo**
[10] This Trojan princess and prophetess was taken home by Agamemnon, who refused to believe her prophecies. This was the result of a curse Apollo placed on her for spurning his advances.
ANSWER: **Cassandra**
[10] This seer was struck blind when he saw Athena naked and had an odd penchant for changing sexes due to striking mating snakes with a staff. Odysseus seeks-out his shade in the Hades.
ANSWER: **Tiresias**

6. Answer the following concerning ancient Greece FTPE.
[10] This period, occurring between the Bronze Age and the Hellenistic period, is the golden age of ancient Greece, containing most of the civilization's great accomplishments.
ANSWER: the **Hellenic** period
[10] Alcibiades and Themistocles both were targets of this process, by which were exiled from Athens for ten years if more than six thousand people wanted them out.
ANSWER: **ostracism**
[10] First formed in 478 BCE, this confederation was made up of the city-states of Asia Minor and its primary goal was the defeat of the Persians. It lost its popularity when Athens began forcing members to maintain allegiance and ended with the Second Peloponnesian War.
ANSWER: the **Delian League**

7. Answer each of the following about a playwright FTP.
[10] Classical sources attribute one hundred twenty-three plays to this great rival of Æschylus. Among those extant today are Ajax, The Trachinian Women, The Trackers, Philoctetes, and Electra.
ANSWER: **Sophocles**
[10] This second work in the Theban cycle follows Oedipus Rex and finds Oedipus and his daughter wandering to a sacred grove.
ANSWER: **Oedipus at Colonus** (or **Oidipous epi Kolono**)
[10] This final play of the Theban cycle sees the title daughter of Oedipus sentenced to death by Creon for burying her brother Polynices. In the end, she, Haemon, and Euridyce all kill themselves.
ANSWER: **Antigone**

8. Identify the following about wars in which France, shockingly, lost FTPE.
[10] At the end of this War, France was allowed to keep St. Pierre and Miquelon, but was forced to ceede all its other territories.
ANSWER: the **Seven Year**s' War (or the **French and Indian** War)
[10] This conflict pitted Louis XIV's France against the namesake alliance, led by England, the Netherlands, and Austria. A prelude to the War of the Spanish Succession, it was ended by the Treaty of Rijswijk [RISS-wick].
ANSWER: the War of the **Grand Alliance** (or the War of the **League of Augsburg**)
[10] During World War II, after France was conquered by Germany, the puppet state of Vichy was established and headed by this hero of World War I.
ANSWER: Henri-Philippe **Pétain**

9. Identify these parts of the brain FTPE.
[10] This brain structure connects the two hemispheres.
ANSWER: the **corpus callosum**
[10] This small structure in the hypothalamus is responsible for generating the body's circadian rhythms.
ANSWER: the **suprachiasma**tic nucleii
[10] These almond-shaped bundles of neurons are located deep within the lobes. There are believed to be responsible for emotional memory.
ANSWER: **amygdala**e

10. Given a work by a German author, name the man who wrote it FTPE.
[10] The Caucasian Chalk Circle.
ANSWER: Bertolt **Brecht**
[10] Die Buddenbrooks.
ANSWER: Thomas **Mann**
[10] Der Steppenwolf.
ANSWER: Herman **Hesse**

11. Answer the following about the failures of Napoleon FTPE.
[10] On November 21, 1806, Napoleon issued the Berlin decrees which effectively began this attempt to destroy British trade.
ANSWER: the **continental system**
[10] When Napoleon tried to enforce the continental system in Spain, it set off this disastrous conflict.
ANSWER: the **Peninsular War**
[10] Napoleon defeated but failed to crush this Prussian marshal and paid the price at Waterloo when he came to the aid of Wellington.
ANSWER: Gebhard **Blücher** [BLUE-kerr]

12. Answer each of the following about some energy in motion FTP.
[10] Usually symbolized Q, this is simply energy associated with the motion of various particles that travels from one body to another.
ANSWER: **heat** transfer
[10] This is the mechanism of heat transfer relevant to a fluid cooling a metal surface, for example. It is first-order in that the rate of heat transfer by this mechanism is proportional to the temperature difference between the cooling fluid and body being cooled.
ANSWER: **convect**ion (or **convect**ive heat transfer)
[10] This law discovered by a rather famous British scientist states that the rate of convection is proportional to the temperature difference or, symbolically, Q equals h delta T.
ANSWER: **Newton's law of cooling**

13. Answer each of the following about a literary work FTP.
[10] This play centers around the scheme of the title fox-like Venitian nobleman to exploit people's greed by faking his own death.
ANSWER: **Volpone**
[10] This English Stuart dramatist wrote Volpone.
ANSWER: Ben **Jonson**
[10] This character in Volpone made to wear ass's ears for trying to bewhore his wife, who was accused by Lady Politic of trying to seduce her husband.
ANSWER: **Corvino**

14. Answer the following about the Unification of Italy FTPE.
[10] After becoming Prime Minister of Piedmont in 1852, this conservative allied himself with Napoleon III and intentionally started a war with Austria.
ANSWER: Camillo di **Cavour**
[10] This man worked as a candle-maker in New York and in armies in South America before returning to Italy to found the Redshirts and agitate for unification.
ANSWER: Giuseppe **Garibaldi**
[10] In 1860, Garibaldi gathered thousands of soldiers and conquered this corrupt kingdom before moving on to the mainland.
ANSWER: Kingdom of the **Two Sicilies**

15. Consider a standard deck of playing cards. FTPE:
[10] This is the probability of pulling a red card or a jack.
ANSWER: **seven-thirteenths** (accept equivalents)
[10] You draw one card. It is red. What is the probability that it is an eight?
ANSWER: **one-thirteenth** (accept equivalents)
[10] This is the probability that a card is red given that it is a jack.
ANSWER: **one-half** (accept equivalents)

16. Name these countries connected to the European Union FTPE.
[10] This applicant country signed an Association Agreement in 1963, but has yet to join because of its poor human rights record and the fact that it does not recognize the government of Cyprus, an EU member.
ANSWER: **Turkey**
[10] This Atlantic island nation withdrew from the European Union in 1980 when it gained independence from Denmark.
ANSWER: **Greenland**
[10] All or nothing, these two countries are slated to become members on January 1, 2007.
ANSWERS: **Romania** and **Bulgaria**

17. Answer each of the following about a book of the Bible FTP.
[10] Written on Patmos in the 90's CE, this book of the New Testament is addressed "to the seven Churches that are in Asia." The author claims it was brought to him on a little scroll brought him by an angel.
ANSWER: The **Revelation** to John (or The Book of **Revelation** or The **Apocalypse** of John)
[10] Revelation's eighth and ninth chapters deal with six of these, which are sounded after the seventh seal is opened. A seventh one is sounded in chapter eleven to herald the coming of the "kingdom of the Lord."
ANSWER: **trumpets**
[10] This is the name of the allegorical creature who "sits on many waters." This "MOTHER OF HARLOTS AND OF THE ABOMINATIONS OF THE EARTH" appears in chapter 17 of Revelation.
ANSWER: **Babylon** the Great

18. Answer the following about a colonial South American dispute FTPE.
[10] This imaginary boundary was first placed one hundred leagues west of the Cape Verde Islands but, after an agreement, it was displaced 370 leagues west.
ANSWER: the **Line of Demarcation**
[10] The Line of Demarcation was placed at 370 leagues after this agreement was signed between Spain and Portugal.
ANSWER: Treaty of **Tordesillas** [tore-duh-SEA-us]
[10] The boundary of one hundred leagues was created by this pope, a Spaniard by birth.
ANSWER: **Alexander VI**

19. Name each of the following from population genetics FTP.
1. This is the random statistical change in allele frequencies in a population over time due to the population's finite size.
ANSWER: **genetic drift**
2. In this type of event, almost a whole population is killed-off in a short time, crimping-off the amount of genetic diversity that survives. An event of this type introduces enormous genetic drifts.
ANSWER: **bottleneck**ing
3. This familiar relation states that, in the absence of genetic drift and certain other factors, the allele frequencies in a population will be given by p^2 [pee-squared], pq [pee-queue], and q^2 [queue-squared], where p and q are the original probability of a dominant and recessive homozygote, respectively.
ANSWER: **Hardy-Weinberg** equilibrium (or **Hardy-Weinberg** equation or **Hardy-Weinberg** principle)

20. Name each of the following branches of philosophy FTP.
[10] This type of philosophy proposes to determine the properties of being as such and is sometimes known as "first philosophy." Its name relates it to the scientific study of observable phenomena.
ANSWER: **metaphysics**
[10] This is simply the study of beauty or taste.
ANSWER: **aesthetics**
[10] From the Greek for "study of reason," this branch of philosophy studies the nature of knowledge.
ANSWER: **epistemology**