

Red 9/8/2009

ISU Fall Tourney
Round 2

1) The year is 1987 and NASA launches the last of America's deep space probes. In a freak mishap Ranger 3 and its pilot are blown out of their trajectory into an orbit which freezes his life support systems and returns him to Earth 500 years later. He awakens from his deep cryogenic sleep to find Earth in the aftermath of a late 20th Century nuclear holocaust. He becomes a valuable member of the Earth's Defense Directorate and part of a fighter squadron headed by Colonel Wilma Deering. For ten points name this late 1970's TV series starring Gil Gerard, Erin Gray and Tim O'Connor.

Answer: Buck Rogers

2) A student of Balakirev, his friend Rimsky-Korsakov believed that his work was "original, full of so much that was new and vital," but also that it was often "absurd [with] disconnected harmony," and began a project of finishing and revising his work after his death. His canon is quite small, consisting of the unfinished operas *The Marriage*, *Salambo*, and *Khovannshchina*, some song cycles including *The Nursery*, *Sunless*, and *The Songs and Dances of Death*, as well as the opera *Sorochintsy Fair* which includes the orchestral work *St. John's Night on Bald Mountain*. FTP, name this Russian composer of *Pictures at an Exhibition* and *Boris Gudanov*.

Answer: Modest Mussorgsky.

3) Tossup: It began with an engagement between the scouting fleets of Admirals Hipper and Beatty in which Hipper led Beatty toward the High Seas Fleet of Admiral Scheer in "the run south." When Beatty ran into the main fleet, he turned around and led them toward his own main force, the Grand Fleet of Admiral Jellicoe in "the run ^{north} south." When the two main forces met, the High Seas Fleet was heavily outnumbered and escaped only by performing a "battle turn away together" maneuver in the fog, returning during the night to the safety of their mine fields and leaving the Grand Fleet in possession of the North Sea. FTP name this massive WWI naval battle between the British and Germans, fought off a Danish peninsula.

Answer: Battle of Jutland.

4) Tossup: The terrain consists of rolling hills, occasional swamps, and a small coastal plain where the majority of its 450,000 inhabitants live. With a tropical climate moderated by trade winds, its largest ethnic group consists of East Indians whose ancestors emigrated in the late 19th century. It currently has a democratically elected president, Runaldo Ronald, although it has often been ruled by military regimes since its independence from the Netherlands in 1975. FTP name this country with capital at Paramaribo, the smallest independent country in South America.

Answer: Suriname.

5) Tossup: She had opportunities to travel widely in Europe and produced two works from them: "*Letters Written during a Short Residence in Sweden, Norway, and Denmark*," and *Historical and Moral View of the Origin and Progress of the French Revolution*. She produced her first novel, *Mary, a Fiction*, while working as a governess and she also authored a book for children called *Original Stories from Real Life* as well as *Education of Daughters*. Her final novel, *Maria, or the Wrongs of Women* was published, after she died giving birth, by her husband William Godwin. FTP name this early feminist, mother of Mary Shelley, and writer of *Vindication of the Rights of Women*.

Answer: Mary Wollstonecraft.

6) To solve it at larger distances, K. G. Wilson introduced lattice gauge theory, in which space-time is discretized onto a lattice. It has the feature of asymptotic freedom, meaning at very high energies the interactions between quarks tends to zero as the distance tends to zero. Featuring a non-Abelian gauge group, it describes the strong interactions between quarks, anti-quarks and the exchange of gluons. FTP, name this strong force analogue of quantum electrodynamics.

Answer: quantum chromodynamics (accept QCD before 'quantum', prompt on it after that point)

7) "tall, but exceedingly lank, with narrow shoulders, long arms and legs, hands that dangled a mile out of

his sleeves, [and] feet that might have served for shovels" [...] "he had the dilating powers of an anaconda." A native of Connecticut he was spotted as an old man in another part of the country serving as a justice of the Ten Pound Court. "An odd mixture of small shrewdness and simple credulity," his favorite book was Cotton Mather's *History of New England Witchcraft*. A strict disciplinarian in his school house, he fell for Katrina Von Tassel despite the fact that she was also the sweetheart of Brom Bones. FTP name this resident of Sleepy Hollow who disappeared after an encounter with the headless horseman.

Answer: Ichabod Crane.

8) Thomas Carlyle asserted that he "creat[ed] a whole new democratic world." Coming from a wealthy family constantly feuding with the guilds, he started his career at the archiepiscopal mint, later becoming a goldsmith. He ended his life in poverty, provided only with a small pension given him by Count Adolph of Nassau, because he lost a lawsuit to Johann Fust and had to turn over all his equipment, including a Bible produced by his innovative new methods. These included the use of linseed oil in ink and a type of uniform height. FTP name this German who pioneered the use of moveable type, developing the printing press.

Answer: Johann Gutenberg.

9) Sugarcane and corn are two of the several thousand plants that utilize this. Carbon dioxide binds to PEP via catalyzation by PEP carboxylase. This produces oxaloacetate—a four-carbon sugar—which is catalyzed into malate. The malate exits the mesophyll cell and enters the bundle-sheath cell and releases the carbon dioxide. FTP, name this alternative path of photosynthesis which minimizes photorespiration and water loss.

Answer: C4 pathway.

10) He provided the name of one of the original ten demes of Athens. The owner of "a shield of seven tough hides and an eighth bronze layer for a surface" he brought twelve boats from Salamis to Troy. There he distinguished himself in single combat against Hector, fought staunchly for the Achaean ships before Patroclus entered the battle, and later provided cover while Menalaus dragged his corpse to safety. He later lost in a footrace to Odysseus at the funeral games for Patroclus, foreshadowing his defeat in a more important contest. FTP name this son of Telamon, the "bulwark of the Achaeans," who committed suicide after going mad when not given the armor of Achilles.

Answer: Ajax or Aias the Greater or Telamonian Ajax or Aias.

11) The villain of the story is the colonial government, "an alien institution" in which "people's business" was to get as much profit from it as they could without getting into trouble. The main character returns from University in England to become a civil servant in Lagos but runs into trouble when his mother will not let him marry Clara, the girl he loves. He becomes alienated from his life in the big city as well as his job. Finding himself, as a critic puts it, "hopelessly caught in the clash between the old and the new" he takes a bribe and is put on trial for it. FTP name this novel, featuring Obi Okonkwo, the sequel to *Things Fall Apart*, written by Chinua Achebe.

Answer: No Longer at Ease.

12) Normally produced by free radical vinyl polymerization, the syndiotactic variety is made via metallocene catalysis vinyl polymerization. This newer version is crystalline and doesn't melt until 270 degrees Celsius. The more familiar version is used to make television cabinets, CD jewel cases, and coffee cups. Consisting of hydrocarbon chain with a phenyl group attached to every other carbon atom, FTP, name this polymer best known under the tradename Styrofoam.

Answer: polystyrene

13) Kautilya, "the Indian Machiavelli," served as his chief minister, helping him overthrow Nanda authority and establish a capital at Pataliputra. Filling the vacuum left after the Macedonian incursion, he gained control over the Punjab and Gandhara by exchanging 500 war elephants with Seleucus Nicator for them. It is unknown how far south he conquered, but he was the first ruler whose empire stretched from the Arabian Sea to the Bay of Bengal. Becoming a Jainist monk after abdicating in favor of his son Bindusara, FTP, name this founder of the Maurya Dynasty.

Answer: Chandragupta Maurya (do not accept or prompt on either Chandra or Gupta).

14) The subject of a 1997 TNT film starring Gary Sinise, he failed in his 1958 bid for governor largely because he accepted the support of the NAACP while his opponent John Patterson catered to the Klu Klux Klan. In future elections he would change his stance, supporting segregation, although in 1982 he was elected to his fourth term as governor on a populist platform appealing to both blacks and whites. He was shot during the presidential primaries of 1972 by Arthur Bremer, and four years earlier, in 1968, he had captured 46 electoral votes running on the American Independent Party platform. FTP name this Alabama politician.

Answer: George Wallace.

15) Wearing leather shoes, engaging in sexual relations, anointing one's body, and washing are all prohibited. White is usually worn and a 25 hour fast is required. Instituted with Leviticus 23:26, it takes place on the 10th day of Tishri, usually in September or October. A special prayer book called the machzor is used with it and Rosh Hahanah, and it is the only biblical holiday in which the kiddush is not performed. It begins with the Kolnidre, or "all vows prayer" and ends with the blowing of the tekiah gedolah. FTP name this Jewish holiday, "The Day of Atonement."

Answer: Yom Kippur.

16) A student of the French engraver Gravelot and influenced by the work of Watteau and Van Dyke, he was a landscape painter at heart. This influence can be seen in many of his portraits which feature lush, often Arcadian background. This, together with stylized poses, made up the style of "Grand Manner Portraiture" that he mastered. Although he worked for the royal family, painting King George III and queen consort Charlotta Sophia, his rival, Joshua Reynolds, was the King's Principal Painter. FTP name this portraitist of *Mrs. Richard Brimsley Sheridan* and *Blue Boy*.

Answer: Thomas Gainsborough.

17) In her most noted work, this graduate of Vassar College examined three cultures, the Kwakiutl of Canada, the Zuni of the SW U.S. and the Dobuans of Melanesia, branding their cultural personality Dionysian, Apollonian, and Paranoid respectively. This work, *Patterns of Culture*, put forth her view that culture reflects the personality of those who created it. Her second major work, about Japanese Culture, was an extension of the work she did in WWII researching the culture of America's enemy. FTP name this friend of Margaret Meade, student of Franz Boas, and author of *The Chrysanthemum and the Sword*.

Answer: Ruth Benedict.

18) It was first headed by Charles Rowan and Richard Mayne and currently its head is John Condon. Its functions include fighting terrorism and protecting foreign diplomats and government officials as well as the royal family. Its location was twice moved, once in 1890 to a spot on Victoria Embankment, and again in 1967 to Broadway, S.W.1; it was originally located at 4 Whitehall Place, formerly the English home of a foreign country's monarch. Although its Lestrade was always asking Sherlock Holmes for help and it failed to catch Jack the Ripper, it is an effective crime fighting force. FTP name this Metropolitan Police Force, located in London.

Answer: Scotland Yard. (accept Metropolitan Police Force before it is said).

A
19) ~~A~~ veteran of the Seven Years War, his first work was *Flore Francaise*, about the plants of France, which was published with the help of Georges Buffon who would later become an intellectual opponent. His critical breakthrough came in 1809's *Philosophie Zoologique*. Here he proposed three major ideas on evolution. First, species change through time even though life arose by spontaneous generation. Secondly he proposed that species progressively change from low forms to complex and perfect forms. For ten points, name this thinker who erred in theorizing the inheritance of acquired characteristics?

Answer: Jean-Baptiste de Lamarck. *Lamarck*

20) Beginning with a debate on Frederick Nietzsche's doctrine of eternal recurrence, it ends by denying it with the statement: "Human time does not turn in a circle; it runs ahead in a straight line. That is why man

cannot be happy: happiness is the longing for repetition." Set against the backdrop of the Soviet invasion of Czechoslovakia in 1968, it concerns the idealistic professor, Franz, who is eventually killed in Thailand: Sabina, an artist who has affairs with Franz, as well as Tomas, a womanizing Prague surgeon, married to Teresa, who tries to convince her husband that sex and love are inseparable. FTP, name this most famous novel of Milan Kundera.

Answer: The Unbearable Lightness of Being.

Bonus: Identify the following Babylonian gods and goddesses from clues FTPE.

1. This Babylonian goddess of war and love fell in love with the young fertility god Tammuz and eventually caused his death. She also demanded that her father Anu send the Bull of Heaven to attack Gilgamesh.

Answer: Ishtar.

2. This primeval sea dragon goddess was the wife of Apsu the god of fresh waters and the mother of all gods.

Answer: Tiamat.

3. The Babylonian war god, he killed Tiamat and made the heavens and earth from her parts. He also created humans from the bones of Kingu ~~her~~ Tiamat's henchman.

Answer: Marduk.

4. At the request of his daughter Ishtar, this god of the heavens sent the Bull of Heaven to attack Gilgamesh and Enkidu.

Answer: Anu.

Bonus: Identify the ephemeral European States from clues FTPE.

1. This Mongol state was established by Genghis Khan's son Ogedei's invasion of Russia and was first ruled by his cousin Batu. It had a capital at Savai Batu on the lower Volga and was officially ended in 1502 after being overrun by various steppe peoples.

Answer: Khanate of the Golden Horde.

2. This largely Basque kingdom in the Pyrenees was established by the Franks in the 8th century. Most of it was annexed to Aragon and Castille by Ferdinand in the early 15th century. The rest of it was incorporated into the French empire after its former king became Henry IV of France.

Answer: Kingdom of Navarre.

3. Formed from smaller German states by Napoleon after his victory at Austerlitz, it included Bavaria, Wurttemberg, and Baden and effectively caused an end to the Holy Roman Empire. It collapsed in 1813 after Napoleon's defeat in Russia.

Answer: Confederation of the Rhine.

4. Incorporating much of Ukraine and Western Russia it began to lose autonomy after it merged with Poland in 1385 although it wasn't officially abolished until 1795. Its rulers included Mindaugas, the Gedimman dynasty, and the Jagiellonian dynasty.

Answer: Grand Duchy of Lithuania.

Bonus: FTPE, Name these scales used in meteorology.

1. In the early 1970s, a Florida engineer and the director of the National Hurricane Center developed this 1 through 5 scale for classifying hurricanes.

Answer: Saffir-Simpson Hurricane Damage-Potential Scale

2. A few years earlier, a University of Chicago professor developed this scale, 0 through 5, to classify tornadoes.

Answer: Fujita Scale for Damaging Wind (also accept Fujita-Pearson Scale)

3. This scale, 0 through 12, is for estimating wind speed from surface or sea observations and was proposed in the 19th century by a British scientist.

Answer: Beaufort Scale.

Bonus: Identify the American historians from clues and works FTPE.

1. He studied the American westward expansion with a "frontier-thesis" and wrote "The Significance of the Frontier in American History." Culturally, he argued, the American frontier was conducive to spreading American traits, including, "That coarseness and strength combined with acuteness and acquisitiveness."

Answer: Frederick Jackson Turner.

2. This Chicago based historian and talk-show host wrote oral histories consisting of interviews with participants in the events. His works include *Working*, *American Dreams: Lost and Found*, and the Pulitzer Prize winning WWII history *The Good War*.

Answer: Studs Terkel.

3. A Former Librarian of ~~College~~ ^{Country}, this pop historians work includes *The Discoverers*, *The Creators*, and *The Seekers*, as well as *The Americans*, a three-volume biography of the American people.

Answer: Daniel Boorstin.

Bonus: Bond chemistry terms from definitions, FTPE.

1. The charge that results when the electrons in a covalent bond to the more electronegative atom, it is the charge an atom would possess if the bonding were ionic.

Answer: oxidation number or oxidation state.

2. In double and triple bonds, this type of bond named for a greek letter is formed from the sideways overlap of p orbitals.

Answer: pi bond.

3. This type of bond results in molecules that pi bonds and more than resonance structure, such as benzene. Such bonding is not accurately described in terms of electron-pair bonds between neighboring atoms.

Answer: delocalized bond.

7
Bonus: For five points each name the six states with the largest Asian populations (by straight numbers not percentage of population) according to the 2000 U.S. census.

Answer: California, New York, Texas, Hawaii, New Jersey, and Illinois.

Bonus: Identify the 17th century dramatists from clues FTPE.

1. This Spaniard allegedly wrote 2200 plays about 500 of which survive. These include *Punishment without Revenge* and *Dona Blanca's Glove*.

Answer: Lope de Vega.

2. Educated by the Jesuits his tragi-comedies include The Maidservant, and The Widow. He is better known for tragedies such as *Le Cid*, *Horace*, and *Cinna*.

Answer: Pierre Corneille.

3. A Younger contemporary and rival of Corneille his tragedians works include *Phedre*, *Britannicus*, and *Iphigenia in Aulis*.

Answer: Jean Racine.

Bonus: What would a quiz bowl tournament be without a bonus about Pre-Socratic philosophers. Identify them from clues FTPE.

9
1. Known as "The Riddler" this philosopher was characterized by Aristotle and Plato as holding a radical view in which everything is in constant flux, thus making him into the arch intellectual opponent of the Parmenides.

Answer: Heraclitus.

2. He was the student of Thales and an important member of the Milesian school. He constructed an elaborate cosmology, a proto-concept of evolution and one of the first maps of the universe. He believed everything was formed from one basic material, apieron, or the boundless.

Answer: Anaxamander.

3. This Sophist was really a contemporary of Socrates and the subject of a Platonic dialogue. He argued that "Man was the measure of all things," and tried to instruct his students on how to "make the weak argument the stronger."

Answer: Protagoras.

4. This 5th century Greek proposed that there were four elements, earth, water, air, and fire, which were separated and pulled together by strife and love respectively.

Answer: Empedocles.

10
Bonus: Consider two sinusoidal waves of the same wavelength and amplitude on a stretched string.

1. For ten points, assume the waves are traveling in the same direction, but differ by a phase constant ϕ . For what value of ϕ fully destructive interference occur?

Answer: 180 degrees or π radians.

2. Now assume the waves are traveling in opposite directions. Name the resulting wave FTP.

Answer: standing wave.

3. For 5 points apiece, name both the points on a standing wave where the string is at rest and the points of maximum amplitude.

Answer: node and antinode.

Bonus: Identify members of the Harlem Renaissance from clues FTPE.

1. Dubbed "The Poet Laureate of Harlem," his poems were deeply entwined with jazz music and were intended "to be read aloud, crooned, shouted, and sung." These poems include "The Weary Blues," "Dream Variations," and "The Negro Speaks of Rivers."

Answer: Langston Hughes.

2. This writer and anthropologist co-wrote the play *Mule Bone* with Hughes as well as the novels *Moses*, *Man of the Mountain*, and *Their Eyes were Watching God*.

Answer: Zora Neale Hurston.

3. The son-in-law of W.E.B. Dubois, his poetry was more based in the classics than was Hughes'. His collections include *Color*, *Copper Sun*, *The Ballad of the Brown Girl*, and *The Black Christ and Other Poems*.

Answer: Countee Cullen.

Bonus: Answer these questions concerning speciation.

1. These are the two major forms of speciation. In the first, speciation occurs due to geographic separation. In the second, speciation occurs due to another reason such as chromosomal changes or nonrandom mating in spite of the fact that the two emerging species share a geographic location. Identify these two forms of speciation—in the correct order—FTPE.

Answer: Allopatric speciation and Sympatric speciation.

2. This theory associated with Stephen Jay Gould and relating to speciation suggests that species do not gradually diverge, but rather they remain relatively constant before undergoing relatively rapid change. Name it, FTP.

Answer: Punctuated Equilibrium.

Bonus: Refer to the Insert. FTPE Identify the Caravaggio piece.

1. Figure A.

Answer: Conversion of St. Paul.

2. Figure B.

Answer: Calling of St. Matthew.

3. Figure C.

Answer: Crucifixion of St. Peter.

Bonus: Plutarch wrote a series of parallel lives of Greek and Romans. FTPE give the Roman counterpart of a famous Greek given the Greek and the main trait they share in common.

1. Alexander the Great/ Conquerors

Answer: Julius Caesar

2 Alcibiades/ Traitors

Answer: Coriolanus

3. Pericles/ Delayers

Answer: Quintus Fabius Maximus Cunctator

4. Lycurgus/ Benevolent law givers

Answer: Numa Pompilius.

Bonus: Answer questions about the War of the Pacific FTSNOP.

1. (5/5) For five points each, Chile invaded what two nations in 1879, one led by Hilarion Daza and the other by Mariano Ignacio Prado.

Answer: Bolivia and Peru. (order unimportant)

2. (10) The war was precipitated after Bolivia rescinded contracts to Chilean investors that allowed them to farm nitrate deposits in this thinly populated desert province of Bolivia.

Answer: Atacama.

3. (10) After Chile successfully settled things with Peru at the 1883 Treaty of Ancon, the next year Chile and Bolivia declared a truce at this Chilean city, the port of Santiago. A treaty, however, was not signed until 1904.

Answer: Valparaiso.

Bonus: Give the Confederate Generals from clues FTPE.

1. This cavalry commander in the Western Theater used his horses for mobility but always fought on foot. He is known for the saying "Git there firstest with the mostest," but is also infamous for the slaughter of black troops at Fort Pillow and for being a founding member of the Klu Klux Klan,

Answer: Nathan Bedford Forrest.

2. A favorite of Jefferson Davis he commanded the Army of Tennessee throughout much of the war. He won at Chickamauga but was replaced by Joe Johnston after being routed at Chattanooga.

Answer: Braxton Bragg.

3. One of the more flamboyant commanders he fired on Fort Sumpter, co-commanded at 1st Manassas with Johnston, took over from Albert Sydney Johnston after his death at Shiloh, and improvised a defense of Petersburg before Lee's forces could arrive.

Answer: Pierre G. T. Beauregard.

Bonus: Identify the leaders in the Italian Independence Movement from clues FTPE.

1. After a failed insurrection in Genoa he was exiled to South America where he formed the redshirts and participated in guerilla warfare for Uruguay against Argentina. From 1860-61 his Italian redshirts invaded Sicily and Naples paving the way for Italian unification.

Answer: Guiseppe Garibaldi

2. This leader of "Young Italy" wanted to establish an Italian democracy with capital at Rome. In the wake of 1848 rebellions he was made a triumvir in revolutionary Rome but the city was eventually retaken by French forces ending his influence in Italy.

Answer: Guiseppe Mazzini.

3. This King of Sardinia Piedmont, the only constitutional state in Italy and thus an attraction for revolutionaries and nationalists, became the first king of unified Italy after Austria ceded Lombardy and Garibaldi conquered the South.

Answer: Victor Emmanuel II. (don't accept Victor Emmanuel I because he kept his dynastic designation after becoming king of Italy.)

4. The Founder of the newspaper *Il Risorgimento*, he was Victor Emmanuel's principle minister and

arranged treaties with Napoleon III against Austria which allowed the unification to be completed.

Answer: Camillo Benso Cavour.

Bonus: Given a teams starting third baseman for the 2002 season, name the team five points each.

1. Eric Chavez.

Answer: Oakland Athletics (accept either).

2. Eric Hinkse.

Answer: Toronto Blue Jays (accept either).

3. Mike Lowell.

Answer: Florida Marlins (accept either).

4. Tony Batista.

Answer: Baltimore Orioles (accept either).

5. Fernando Tatis.

Answer: Montreal Expos (accept either).

6. Herbert Perry.

Answer: Texas Rangers (accept either).

Bonus: Give the British novel from characters FTPE

1. Amelia Sedley, William Dobbin, George Osborn, Rawden Crawley, Becky Sharp

Answer: Vanity Fair A Novel Without a Hero. (by Thackeray)

2. Mr. Lockwood, Catherine Earnshaw, Edgar Linton, and Heathcliff

Answer: Wuthering Heights (by E. Bronte)

3. Miss Verinder, Franklin Blake, and Sergeant Cuff

Answer: The Moonstone (by Wilkie Collins)

1. Louisa Lily Denys Western, ~~Baxter and Clara Dawes~~, Miriam Leiver, and Paul Morel.

Answer: ~~Sons and Lovers~~. (By D.H. Lawrence)

Bonus: FTPE name these Mozart works.

1. In this opera, the Queen of the Night sends Prince Tamino to rescue her daughter, Pamina. Tamino finds out that the Queen is evil, however, and proceeds to recuse Pamina and defeat the evil Queen at the Temple of Isis.

Answer: Die Zauberflote or The Magic Flute.

2. Written in 1788, it's sometimes known as Serenade #13 for Strings. Its "Allegro" movement begins with an arpeggiated "G" chord followed by a "D-seven" chord.

Answer: Eine Kleine Nachtmusik or A Little Night Music.

3. When Mozart died in 1791, this work, K. 626, was left unfinished. He finished the "Introitus" and part of the "Dies Irae" movements, but Franz Sussmayr finished much of the rest.

Answer: Requiem Mass.

Bonus: Tomato and Parsley are two of the so-called "Vegetables" in V8 Vegetable Juice. FFPE, name the six real vegetables in V8. 15 seconds for discussion.

Answers: Carrot, Celery, Beet, Lettuce, Watercress, Spinach.