

The Omar Bongo Academic Tournament University of Pittsburgh: March 23, 2002

Questions by Mike Baker, Heather Brown, Mike Davies, Beth Davis, Amie Dupin, Jonathan Misurda, Rich Nalichowski, Josh Sokoloski, Jennifer Sydeski, and Matt Weiner

PACKET L TOSSUPS

1. This novel is an expansion of the same author's short story "The Mirror of an Evening Scene." On the train to the title location, the protagonist is writing a book about the ballet but becomes distracted by his reflection in the window. The protagonist despairs that the woman he is on the way to see is not a reflection of his ideals but a very real geisha. Eventually, Yoko is killed in a fire, Komako is abandoned, and Shimamura returns to Tokyo. FTP, name this novel by Kawabata Yasunari.

ANSWER: *The Snow Country* [or *Yukiguni*]

2. It created the Voting Rights Institute to protect its interest in elections. Animation executive Haim Saban recently donated ten million dollars to this organization in the largest-ever example of a soon-to-be illegal practice. Its chairman is currently may soon be investigated for links to the bankrupt Global Crossing. FTP, name this organization chaired by Terry McAuliffe, which promotes a major U.S. political party.

ANSWER: Democratic National Committee

3. Mathematicians are still trying to unravel his writings on infinitesimals, which were part of his "synechism." He made a distinction between inductive and abductive inferences, and he referred to his argument that random events have a place in science as "tychism." His works in logic include "Description of a Notation for the Logic of Relatives" and the Reduction Thesis. His sequel to "The Fixation of Belief" was entitled "How to Make Our Ideas Clear." FTP, name this founder of pragmatism.

ANSWER: Charles Sanders Peirce

4. When it was introduced in October 2000, Joe Jimenez explained that it was targeted at the children who already comprised half of its company's consumers. It immediately sparked a ten percent rise in the stock price of its Pittsburgh manufacturer. Fortified with Vitamin C, it has spawned pink, teal, orange, and purple successors in the "EZ Squirt" line. FTP, identify this variant on a popular Heinz product.

ANSWER: green ketchup

5. Pivoting allows for calculations where the diagonal entry could be zero, partial only looks at the elements in the current column, and total looks at the entire rest of the matrix. A form of LU decomposition, it arrives at the same result through the same process only by doing it "in place" through using an augmented matrix. The process consists of two operations, adding a multiple of a row to another row and multiplying a row by a constant value. FTP, name this process for solving a system of linear equations which yields a matrix in reduced row echelon form.

ANSWER: Gaussian elimination [accept row reduction]

6. The type "of love" is pitched a minor third below the standard version and appears in *Boléro* among other works. The modern version of the shawm and curtal, its range extends two and a half octaves from B-flat below middle C, and its A leads the orchestra in tuning. FTP, name this double-reeded instrument.

ANSWER: oboe

7. U.S. district attorney Thom Mrozek charged this organization with killing six people, including Meyer Muscatel and Nick Kharabadze, and dumping the bodies in New Melones Lake outside Sacramento. Its chief component is a five-thousand member group called Solntsevskaya. FTP, give the informal name for this organization of gangsters, believed to be led by Sergei Mikhailov.

ANSWER: the Russian Mafia [accept any reasonable equivalent]

8. She began her career with romantic novels such as *Jenny* and *Mrs. Martha Oulie*. Later works include religious fiction such as *The Wild Orchid* and *The Burning Bush* and an autobiography, *The Longest Years*. The story of the unrepentant murderer Olav, *The Master of Hestviken*, was her second multibook cycle set in medieval times. FTP, name this author who used the setting of fourteenth-century Norway for *The Bridal Wreath*, *The Mistress of Husaby*, and *The Cross*, the Kristin Lavransdatter trilogy.

ANSWER: Sigrid Undset

9. The conduct of this war was largely in the hands of an expatriate German, Hans Kundt, and a deported Russian, Juan Belaieff. Begun with an attack on Fort Vangaurdia, it led to the overthrow of Daniel Salamanca. Carlos Saavedra Lamas of Argentina received a Nobel Peace Prize for mediating it. All told, almost a hundred thousand people died fighting over an unpopulated savanna. FTP, name this 1932 to 1935 war between Paraguay and Bolivia.

ANSWER: Chaco War

10. With a temperature at absolute zero, this is energy difference between the occupied lower energy states and the higher empty states in one class of particles. It more often refers to the highest energy of the highest occupied electron level. FTP, name this energy at which a degenerate gas will have all the particles of lesser or equal energies.

ANSWER: Fermi energy

11. This inducible operon has a single promoter and operator. It has three structural genes, including permease, transacetylase, and beta-galactosidase. FTP, name this operon that produces the enzymes needed to catabolize glucose.

ANSWER: lac operon

12. She was an avid gardener who wrote a weekly column for the *Observer* and turned her Sissinghurst Castle home into a National Trust site. Although married to diplomat Harold Nicholson, she "eloped" to France with Violet Kepple. FTP, name this member of the Bloomsbury Group, the author of *The Edwardians* and *All Passion Spent* and the model for the title character of Virginia Woolf's *Orlando*.

ANSWER: Victoria Mary "Vita" Sackville-West

13. This agency forced the Arizona Cardinals to stop construction of a new stadium in November 2001. It has found itself in the insurance business in recent months in order to help the commercial side of its purview. Led by Jane F. Garvey, it recently approved a California program to allow the presence of certain armed officers. FTP, name this Department of Transportation agency which regulates air traffic.

ANSWER: Federal Aviation Administration

14. A plot of pressure/critical pressure versus volume/critical volume produces titular loops that reflect the balance of cohesive and dispersing forces that lead to gas and liquid coexistence. Under conditions of high temperatures and large molar volumes, it will yield isotherms identical to those obtained from the ideal gas equation. Its coefficients are related to the temperature, pressure, and volume at the critical point. FTP, name this equation that takes into account the finite size of molecules and the intermolecular forces between them, the simplest modification of the ideal gas relation for real gases.

ANSWER: Van Der Waals equation

15. Led by Paul Pestel, Nikita Muraviev, and Sergei Trubetskoi, this group was an umbrella organization composed of the moderate Northern Society, the radical Southern Society, and the socialist Society of the United Slavs. They gathered in Senate Square and demanded "Constantine and constitution," without success on either front. FTP, name this group which opposed the accession of Nicholas I to the Russian throne in 1825.

ANSWER: Decembrist revolt [accept equivalents]

16. He had nine hits in five games to capture the 1970 World Series MVP award. His number 5 was retired after he set then-records for his position with 482 doubles and 268 home runs. The 1964 American League MVP, his eighteen straight All-Star Game appearances are a record for his position, and his sixteen consecutive Gold Gloves are a record for anybody. FTP, name this twenty-three year Orioles third baseman.

ANSWER: Brooks Calbert Robinson

17. It was largely unenforceable after the San Francisco earthquake of 1906, which destroyed the records needed to disprove the existence of "paper sons." Repealed in 1943 as part of the war effort, it had not applied to anyone born in the United States since an 1898 Supreme Court ruling. First passed in 1882, it was extended under the Geary bill of 1892. FTP, name this law aimed at ending immigrant labor from a certain country.

ANSWER: the Chinese Exclusion Act

18. The first name's the same. One was an abolitionist and libertarian theorist of the nineteenth century who wrote *The Unconstitutionality of Slavery*, *One Natural Law*, *Trial by Jury*, *Vices Are Not Crimes*, and *No Treason: The Constitution of No Authority*. The other ruled the island of Samos as a demigod and was killed at Haliartus ten years after leading the victory at Aegospotami. FTP, give the name common to the American political theorist of the last name Spooner and the Spartan naval commander.

ANSWER: Lysander [prompt on Spooner before the end]

19. Unterwalden and Appenzell are two of the three that have no capital. Chur and Sion are among the largest by area, while those that border other countries include Lugano, Jura, and Schaffhausen. Near the top of the official order are Glarus, Uri, Lucerne, Bern, and Zürich. FTP, name these divisions of Switzerland.

ANSWER: cantons

20. He wrote of his own life in *Ploughman of the Moon* and *Harper of Heaven*. He bowed to peer pressure and drove a French ambulance during World War I, but his writing draws mainly on his time working at a bank in Whitehorse. His Yukon work includes the novel *The Trail of Ninety-Eight* and the poetry collection *Songs of a Sourdough*. FTP,

name this author of "The Shooting of Dan McGrew" and "The Cremation of Sam McGee."

ANSWER: Robert William Service

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PACKET L BONI

1. Name these pioneering females in Canadian politics for 10 points each.

•The first woman elected to the federal House of Commons, this Cooperative Commonwealth Federation politician served from 1921 to 1940, stressing agricultural aid and penal reform.

ANSWER: Agnes Campbell MacPhail

•The first female senator, appointed as a result of the Persons Case, this Liberal attempted to loosen restraints on immigration and divorce.

ANSWER: Cairine Reay MacKay Wilson

•The first and only female prime minister, this Progressive Conservative served for four months in 1993.

ANSWER: Avril Phaedra "Kim" Campbell

2. Name these characters from the Trojan War who are less than rocket scientists for 10 points each.

•This Thessalian prince was told that the first Greek to touch Trojan soil would be the first to die in the war, so of course he leaped from his boat to the shore. His shade was allowed to visit his wife Laodamia for three hours, but his second departure depressed her so much that she killed herself.

ANSWER: Protesilaus

•In Book X of the Iliad, this Trojan spy runs into Odysseus and Diomedes at night and tells them that if Rhesus's horses eat the grass, Troy will be assured of victory. Diomedes kills him and Rhesus, then steals the horses.

ANSWER: Dolon

•This man exposed Odysseus's faking of insanity in order to bring him to the war. The Psuedo-Apollodorus claims that Odysseus got revenge by forging a letter from Priam and hiding gold in his tent, while the *Cyprus* says that Odysseus and Diomedes drowned him while fishing.

ANSWER: Palamedes [or Palmedes]

3. Answer the following about evolutionary genetics for the stated points.

•For 10, this mechanism that maintains reproductive isolation takes place when two members of different species are willing and able to mate. This type of isolation inhibits the development of viable and fertile adults. The types include hybrid inviability, developmental hybrid sterility, segregational hybrid sterility and hybrid breakdown.

ANSWER: postzygotic isolation

•For 5 points each, name any four of the five prezygotic mechanisms of reproductive isolation.

ANSWER: habitat, temporal, behavioral [accept ethological], mechanical, or gametic

4. Answer the following about the Angolan civil war for 10 points per part.

•Founded in 1966, this group helped expel Portugal and has since, with only brief armistices, fought the Communist governments of Agostinho Neto and Eduardo dos Santos with aid from South Africa and the United States.

ANSWER: União Nacional para a Independência Total de Angola [or the National Union for the Total Independence of Angola]

•This founder of UNITA signed the Lusaka Protocol and the Bicesse Accord with dos Santos but refused to participate in subsequent coalition governments. He was killed by government troops in February 2002.

ANSWER: Jonas Mailhero Savimbi

•Founded in 1956, this group led the Angolan independence movement and has controlled the government for most of the time since. Neto and dos Santos were members, and it formerly received aid from the Soviet Union and Cuba.

ANSWER: Movimento Popular de Libertação de Angola [or the Popular Movement for the Liberation of Angola]

5. Name these Egyptian goddesses for 10 points each.

•The goddess of moisture, she and Shu were the parents of Seb and Nut.

ANSWER: Tefnut

•Originally a form of Bat and Neith, this "Friend of the Dead" became a goddess in her own right late in Egyptian history. She guides souls and comforts surviving relatives. The daughter of Nut and consort of Seth, she wears a basket and a house on her head.

ANSWER: Nephthys

•This cat-headed goddess was the mother of Mihos and an avenger dispatched by Ra.

ANSWER: Bastet

6. Answer the following about a song for 10 points each.

•Featured in the Tom Hanks film of the same name, the title action apparently includes "breaking my heart into a million pieces" and makes forgetting "so hard."

ANSWER: "That Thing You Do"

•The song was sung for the film by this member of Snap! and the Candy Butchers.

ANSWER: Mike Viola

•Viola co-wrote the song with Adam Schlesinger, who teams with Chris Collingwood to form this group behind "Survival Car," "Sink to the Bottom," and "Radiation Vibe."

ANSWER: Fountains of Wayne

7. Given its 2002 presidential candidate, name the French political party for 10 points each.

•Leading challenger and current Prime Minister Lionel Jospin

ANSWER: Socialist

•Incumbent Jacques Chirac

ANSWER: Rally for the Republic [or Rassemblement pour la République]

•Jean Marie le Pen

ANSWER: National Front [or Front National]

8. Name these leaders of Korea for 10 points each.

•He led the Korean government in exile during World War II and was president of South Korea from 1948 to 1960. He was then exiled to Hawaii for massive election fraud.

ANSWER: Syngman Rhee

•Becoming regent in 1864, he repressed Christianity and defended against invasions by France and the United States until the accession of his son Kjong in 1873.

ANSWER: Taewongun [or Yi Hungson; prompt on Yi]

•This wife of Kojong and strong opponent of Japan was assassinated in 1895 by employees of the Japanese minister to Korea, Miura Goro.

ANSWER: Queen Min Myongson

9. Name these Aztec gods for 10 points each.

•God of rain, agriculture, fire, and the third of the five ages, he presides over those killed by storms and disease, as well as the drowned children who were sacrificed to him. His consort is Chalchiuhtlicue.

ANSWER: Tlaloc

•God of night and the material world, this shape-shifter possessed a magic mirror, opposed Quetzalcoatl, and once seduced Xochiquetzal.

ANSWER: Tezcatlipoca

•Depicted as a skeleton or a dog-headed man, he is the god of lightning and twin brother of Quetzalcoatl. He leads the dead to Mictlan and guides the sun during the night.

ANSWER: Xolotl

10. Name the programming languages created by these people for 10 points each.

•Bjarne Stroustrup

ANSWER: C++

•Larry Wall

ANSWER: PERL

•John McCarthy

ANSWER: LISP

11. For 10 points each, name these William Wordsworth poems.

•In this sonnet, Wordsworth writes "...I'd rather be/A Pagan suckled in a creed outworn" and expresses disappointment that "We have given our hearts away..." and "...for everything, we are out of tune."

ANSWER: "The World is Too Much With Us"

• "Milton! thou shouldst be living at this hour:/England hath need of thee..." opens this poem, titled after a city and a year.

ANSWER: "London, 1802"

•A late addition as the concluding poem of *Lyrical Ballads*, it discusses a return to a certain location after five years, the mystical enlightenment brought about by nature, the subjective "mighty world of eye and ear," and Wordsworth's sister.

ANSWER: "Lines Composed A Few Miles Above Tintern Abbey, on Revisiting the Banks of the Wye During a Tour, July 13, 1798" [prompt on "Lines"]

12. Name the authors of these works about the Biafran War for 10 points each.

•He discussed the war in both "Season of Anomy" and "Madmen and Specialists."

ANSWER: Wole Soyinka

•She wrote the play "Destination Biafra."

ANSWER: Buchi Emecheta

•A member of the Biafran government, he described the time in the essay collection *Beware, Soul Brother*.

ANSWER: Chinua Achebe [or Albert Chinualumogu Achebe]

13. Answer these questions about streams for 10 points each.

•This is the slope that a stream flows over.

ANSWER: gradient

•In this occurrence, headward erosion by a stream into the drainage basin of another stream increase the discharge and sediment transport of one while diminishing the other.

ANSWER: stream piracy

•This drainage pattern appears random and is caused by recent glaciation.

ANSWER: deranged

14. Answer the following about a scheme for 10 points per part.

•This king of England from 1660 to 1685 presided over the Restoration.

ANSWER: Charles II [prompt on Charles]

•Charles called a new Parliament in 1679 as a result of rumors that the Rome was conspiring with France and Spain to depose Charles and put James II on the throne as a Jesuit puppet. The conspiracy came to be known by this name.

ANSWER: Popish Plot

•The Popish Plot was a fabrication created by this Anglican priest, who oversaw the executions of thirty-five supposed conspirators.

ANSWER: Titus Oates

15. Identify the capitals of these African countries for 10 points each.

•The Republic of the Congo

ANSWER: Brazzaville

•Somaliland

ANSWER: Hargeisa

•Togo

ANSWER: Lomé

16. Answer the following about two works and their author for 10 points per part.

•Discussing the relationships between woman in Dunnet Landing, Maine, this novella includes the characters of Mrs. Todd and Asa as well as many references to herbalism.

ANSWER: *The Country of the Pointed Firs*

•The title story of a collection which also includes "Farmer Finch," "The Dulham Ladies," and "The Two Browns," it describes Sylvia, who must decide whether to reveal the location of the title bird to a hunter.

ANSWER: "A White Heron"

•This author of "A White Heron" and *The Country of the Pointed Firs* also wrote *Deephaven*, *A Country Doctor*, and *The Tory Lover*.

ANSWER: Sarah Orne Jewett

17. Name the painters of these altarpieces for 10 points each.

•The altarpiece at Verona's Church of San Zeno

ANSWER: Andrea Mantegna

•The altarpiece at the Saint Florian monastery in Enns

ANSWER: Albrecht Aldorfer

•The Ghent Altarpiece

ANSWER: Jan van Eyck

18. Answer the following about Georgia and the Civil War for 10 points per part.

•An unsuccessful attempt to bring the Northern and Southern Democrats together involved nominating this Georgian as Stephen Douglas's running mate in 1860.

ANSWER: Herschel V. Johnson

•At this site on the Tennessee/Georgia border, the William Rosecrans forced Braxton Bragg to retreat to Chattanooga in September 1863.

ANSWER: Chickamauga

•At this site west of Marietta, William Tecumseh Sherman attacked Joseph Johnston's forces in order to secure access to the Western and Atlanta Railroad.

ANSWER: Kenesaw Mountain

19. Answer these questions about spectral lines for 10 points each.

•A component of the width of spectral lines is due to this effect which features a shift in radiation frequency based on its relative motion with regards to the detector.

ANSWER: Doppler broadening

•This law states that the absorbance is linearly related to the concentration of the analyte.

ANSWER: Beer's Law

•In proton NMR, peaks are often split due to this interaction between neighboring magnetically active nuclei.

ANSWER: coupling

20. Answer the following about Hannukah for 15 points per part.

•Hannukah begins on the 25th day of this month in the Jewish calendar.

ANSWER: Kislev

•Hannukah commemorates the victory of the Macabees against this king of Hellenic Syria.

ANSWER: Antiochus IV Epiphanes