

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

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

PACKET H TOSSUPS

1. They can be simple, aggregate, or multiple. They can also be dehiscent or indehiscent. Types include pepos, hesperidiums, achenes, drupes, and berries. They are the product of ripened and mature ovaries. For 10 points, name this classification that can include nuts, tomatoes, apples, and oranges.

ANSWER: fruits

2. An operatic adaptation of it was Viktor Ullmann's last work. In this play, the secretary Licht reports that a woman wants to find the man who damaged a favorite object during a nighttime visit to her daughter's bedroom. Leberecht and Ruprecht are first suspected, but soon Kreisrichter Walter finds that Judge Adam committed the offense while retrieving a wig after cavorting with Eve. FTP, name this play in which Marthe gets compensated for the title object, the comic masterpiece of Heinrich von Kleist.

ANSWER: "The Broken Jug" [or "Der zerbrochene Krug"]

3. Take a homogenous mineral containing cations of significantly different size and heat to a high temperature. Allow the mineral to cool slowly and prevent any movement of material into or out of the system. You will observe that the original material will separate into two distinct minerals. This behavior can be illustrated on a phase diagram of the system by a miscibility gap between the two crystals in the solid solution region. FTP, name this "unmixing" process that leads to lamellae in feldspars and hornblendes.

ANSWER: exsolution

4. Pierre Iberville was the first European to see this body of water, which is crossed by the longest multiple-span bridge in the world, the Causeway Bridge. Slidell and Kenner are on its shores, and it is a chief lake of the eastern Mississippi delta. FTP, name this lake just north of New Orleans.

ANSWER: Lake Pontchartrain

5. The only endothermic value measured is that of nitrogen; the alkali metals and noble gases have not been measured. Exceptions to the periodic trends are results of repulsion within orbitals. Its values can be compared as either negative or positive, because all of the values of this property would be negative if it were viewed simply as an energy change. FTP, name the atomic property, with a lower magnitude and measurability than ionization energy, defined as the tendency to take on a negative charge.

ANSWER: electron affinity

6. He adapted his own *The Wand of Youth* from a version he wrote as a child. He died while working on a third symphony and an opera called *The Spanish Lady*. In between, he composed the *Black Knight* cantata, *King Olaf*, *The Light of Life*, and *Polonia*. FTP, name this composer of the *Enigma Variations* and *Pomp and Circumstance*.

ANSWER: Sir Edward William Elgar

7. It was described in the inaugural address of its architect as "a special pledge to convert our good words into good deeds...to assist free men and free governments in casting off the chains of poverty." Announced in a twenty-country treaty at Punta del Este, its goals included a 2.5 percent increase in per capita income and the spread of democracy. Established with an initial one hundred million dollar commitment in 1961, it was abandoned by 1973. FTP, name this program which provided U.S. aid to Latin America.

ANSWER: The Alliance for Progress [or Alianza para el Progreso]

8. Originally a clan in the Central Asian Ghuzz tribe, their members included the founder of schools, Kilic Arslan, and the victor at Malazgirt, Alp Arslan. By 1055, they had expelled the Ghaznavids and Buyids and conquered as far as Baghdad under Togrul Beg. FTP, name this Sunni dynasty which ruled the Middle East during the First Crusade.

ANSWER: Seljuk Turks

9. In 1991, her story collection *A Vocation and a Voice* was published, a century after being pulled due to controversy over her major novel. She self-financed her first novel, *At Fault*, which was followed by the story collections *Bayou Folk* and *A Night in Acadie*. Her next novel features a symbolic parrot and Robert Lebrun, with whom Edna Pontellier has an affair before walking into the ocean. FTP, name this author of *The Awakening*.

ANSWER: Kate O' Flaherty Chopin

10. When he gained the throne, he issued the Accession Manifesto, which noted his "full faith in the justice and strength of the autocracy." His tutor, Constantine Pobedonostsev, instilled in him the strong conservative and anti-Semitic beliefs which guided his reign. His foreign policy consisted of close ties to France and a feud with Austria-Hungary over the Bulgarian succession. FTP, name this tsar who instituted the Russification policy against minority groups as a reaction to the assassination of his father.

ANSWER: Alexander III [prompt on Alexander]

11. He put forth ten theses against the Ru school, which included "condemnation of aggression" and "serving the spirits." He condemned music, because of the high cost of creating instruments, as part of his opposition to extravagance. His followers became experts on defensive warfare, but he opposed aggression. FTP, name this fifth-century BCE Chinese philosopher, a rationalist who attempted to benefit the whole of society with his "universal love" manifesto.

ANSWER: Mozi

12. The pendentives supporting its central dome are hidden behind the semi-domes, allowing for screen walls and large windows to create a dramatic amount of light. Eight text-filled discs are affixed over the original frescoes in the interior of this building, originally conceived in order to outdo the Temple of Solomon. FTP, name this building, created by Anthemios and Isidoros, an immense church in Constantinople.

ANSWER: Hagia Sophia [or Church of the Holy Wisdom]

13. It was covered as the third track on Duran Duran's album *Thank You*. Events which occur during it include watching a movie, leaving problems alone, forgetting oneself, feeding animals in the zoo, drinking sangria in the park, and then going home at nightfall. The third track on *Transformer*, its singer's reaction to such events is satisfaction with

spending the titular length of time with you and continuing to hang on. FTP, name this Lou Reed song.

ANSWER: "Perfect Day"

14. It proposes that justice consists of treating "equals" better than "inequals," such as the irrational "natural slaves.". It says that the middle class is a bulwark against factional conflict and should comprise the legislature, a mixture of oligarchy and democracy is the best form of government, and the good man supports the movement to the best regime, while the good citizen supports the current regime. FTP, name this Aristotle work which presumes that "man is by nature" a certain kind of animal.

ANSWER: Politics

15. Take the square of the error function for the general form of the equation which you wish to produce. Minimize the solution of the error function by taking both first order partial derivatives and setting them equal to zero, and solving the system that results. Because of the summation in the error function, most types of this, including the familiar linear type, require values like the sum of all the x coordinates or the sum of all the x coordinates times the y coordinates. FTP, identify this method of fitting data to a curve in such a manner that the square of the remaining error is minimized.

ANSWER: regression

16. Holidays in this religion include West Victory Day and Kozel Day. Believing in "salubrious living," their central text is *Nature's Eternal Religion*. This religion's symbolic flag consists of a halo, a crown, and the letter W on a red background. They deny the Holocaust and the historical Jesus, while believing in the "Jewish Occupation Government." FTP, name this church which encourages members to move to central Illinois as part of its plan for war against non-whites.

ANSWER: World Church of the Creator [prompt on Creativity; prompt on partial answer]

17. Ingrid Betancourt was missing during the first debate for the presidency of this country due to being kidnapped. Other candidates include Harold Bedoya, Horacio Serpa, and Noemi Sanin. Luis Eduardo Garzon is the only candidate who has not endorsed a plan to extradite Manuel Marulanda, while Alvaro Uribe is currently leading in the polls. FTP, name this country in which outgoing president Andres Pastrana passes on the problem of the FARC insurgents.

ANSWER: Republic of Colombia [or *República de Colombia*]

18. He was a member of the Cliche Royal Commission which exposed violence and corruption in Québec's construction industry. He developed a reputation as a business-labor peacemaker as president of the Iron Ore Company of Canada. He came into office when his party defeated John Turner's in the biggest landslide in Canadian history. His government saw economic recovery culminating in the signing of NAFTA. FTP, name this man, Progressive Conservative prime minister from 1984 to 1993.

ANSWER: Martin Brian Mulroney

19. The fact that it was written while its author was in exile from the government of Gabriel Gonzalez Videla likely amplified its Marxist bent. It contains "The Sand Betrayed" and "The Massacres." It claims that the title entity of one poem "reserved for itself the juiciest" in "The United Fruit Company" and exalts readers to "Kiss these secret stones

with me" in "The Heights of Macchu Picchu." FTP, name this 340-poem survey of South America by Pablo Neruda.

ANSWER: **Canto General** [or **General Song**]

20. His most philosophical work was the trilogy *Hordubal*, *Meteor*, and *The Ordinary Life*. His sister Helena and brother Josef were both authors; he collaborated with Josef on "I Had A Dog And A Cat," "The Fateful Game of Love," "The Gardener's Year," and "The Insect Play." On his own, he wrote a play which features such characters as Jacob Berman, Helena Glory, Harry Domain, Marius, Primus, and Sula. FTP, name this author of "The Makropolous Case" and "Rossum's Universal Robots."

ANSWER: Karel **apek**

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PACKET H BONI

1. Answer the following about an event for 10 points per part.

- This 1842 rebellion opposed a group which ignored a plebiscite ratifying the People's Constitution, which expanded the franchise in Rhode Island from the narrow qualifications of the 1663 charter.

ANSWER: Thomas Wilson **Dorr's** Rebellion

- The rebellion attempted to install Dorr as governor in opposition to this man, elected under the old charter, who declared martial law in Rhode Island to fend off Dorr.

ANSWER: Samuel Ward **King**

- In this 1849 Supreme Court decision, brought by a man whose house was searched by the King government, the Court held that the "guaranty clause" of the Constitution, which provides for a "republican form of government," was not violated by ignoring the plebiscite.

ANSWER: **Luther** v. *Borden*

2. Name these South African authors for 10 points each.

- He publishes Afrikaans and English editions of all of his works, which include *Looking on Darkness*, *A Dry White Season*, *A Chain of Voices*, and *An Act of Terror*.

ANSWER: André Philippus **Brink**

- She wrote *The Soft Voice of the Serpent*, *July's People*, and *The Conservationist*.

ANSWER: Nadine **Gordimer**

- With Laurens Van der Post and William Plomer, he founded the journal *Voorslag*. Like many authors of his time, he fought in the Spanish Civil War; unlike most, he fought for the Fascists. His works include *The Flaming Terrapin* and *Flowering Rifle*.

ANSWER: Ignatius Roy Dunnachi **Campbell**

3. Mmmm...finger-redeeming good. Name these doctrines relating to the Eucharist for 10 points each.

- Supported by the Catholic and Eastern Orthodox Churches, it holds that the bread and wine become the actual body and blood of Christ.

ANSWER: **transubstantiation**

- Usually framed in Aristotelian terms of accidents and substances, it agrees with transubstantiation that the accidents of the bread and wine are changed, but holds that their substances have not. It was developed by the original Lutherans.

ANSWER: **consubstantiation**

- Developed by John of Paris at the end of the thirteenth century and derived from the Latin for "turning into bread," it holds that the human body of Christ transforms into bread and wine, filling the foodstuffs with the divine word.

ANSWER: **impanation**

4. Name these females who made contributions to particle physics for 10 points each.

- She discovered the magic numbers, explained strong-spit orbit coupling in the nuclear shell model, and was the first to investigate nuclear pairing.

ANSWER: Maria Goeppert Mayer

•She is most known for her work with DNA and x-ray diffraction photographs, but she also researched the tobacco mosaic virus and viral RNA.

ANSWER: Rosalind Franklin

•She predicted 3-jet events and b-quark mass, and with B.W. Lee, she predicted the mass of the charm quark before that particle's discovery.

ANSWER: Mary Katherine Gaillard

5. Name these related biological terms for 10 points each.

•This is transition in the species composition of biological communities.

ANSWER: succession

•This type of succession occurs in an area where there were initially no organisms.

ANSWER: primary succession

•This type of succession that occurs when an existing community has been cleared by a disturbance

ANSWER: secondary succession

6. Name these children's entertainments from the late 1980s for 10 points each.

•This 1988 to 1989 cartoon saw the title character team up with Mario, Shades, Wally, Casey, and Heather against concert promoter Morton Fizzback.

ANSWER: Denver the Last Dinosaur

•Charlie and Itchy, voiced by Burt Reynolds and Dom DeLuise, are part of a confusing theological exploration triggered by Carface's attempts to capture Anne-Marie.

ANSWER: All Dogs Go to Heaven

•John Candy, Sandra Bernhard, Chevy Chase, and Waylon Jennings appeared in this 1985 film, in which Miss Finch places the title character with the Dodos, resulting in his running away.

ANSWER: *Sesame Street Presents* Follow That Bird

7. Name these Charles Dickens works for 10 points each.

•Silas Wegg's blackmail plot is foiled, and John Harmon ends up with his father's dust fortune and the hand of Bella Wilfer after assuming the identity of Rokesmith following a deadly encounter with a sailor, in this novel.

ANSWER: Our Mutual Friend

•The two title characters of this novel are both named Paul; one dies in childhood, while the other must be cared for by his once-neglected daughter Florence after his business manager, Carker, runs away with his wife.

ANSWER: Dombey and Son

•In this novella, Dot Peerybingle is suspected by husband John of harboring a secret love, while Caleb Plummer lies to daughter Bertha, a blind maker of dolls' dresses, about Tackleton's attractiveness.

ANSWER: *The* Cricket on the Hearth

8. Name these limnological zones for 10 points each.

•This region of a lake is closest to shore. Light penetrates to the bottom, thus the primary productivity is dependant on aquatic plants. Many organisms can thrive due to plant life and shallow, quickly warming water.

ANSWER: littoral

•As one descends into the water, light penetrates less and less. At a certain depth, the rate of photosynthesis equals that of respiration. This zone occurs between that point and the littoral zone.

ANSWER: limnetic

- This zone is chiefly inhabited by primary consumers called benthos that live on organic matter which drifts down from the littoral and limnetic zones. A large population of bacteria and fungi are also supported by the underlying sediments in this deepest layer of a lake.

ANSWER: profundal

9. Answer the following about a novel and its author for 15 points per part.

- This novel follows twenty-nine years in the lives of Frédéric Moreau, a provincial immigrant to Paris, and the artist-turned-soldier Sénécal, focusing on the moral vacuum which created and destroyed the Revolution of 1848.

ANSWER: A Sentimental Education [or *L'Education sentimentale*]

- This author of *A Sentimental Education* also wrote *The Feeble Sex*, *Salambô*, and *Madame Bovary*.

ANSWER: Gustave Flaubert

10. Answer the following questions that either are or aren't about waves for 10 points each.

- In this kind of wave, displacement is parallel to the direction of wave propagation.

ANSWER: longitudinal wave

- This effect is observed with the interference pattern of two waves with different wavelengths.

ANSWER: Beats effect

- This effect is a small attractive force between two close parallel, uncharged conducting plates, due to quantum fluctuations of the electromagnetic field.

ANSWER: Casimir effect

11. Answer these questions about the linguist Roman Jakobson for 10 points each.

- Along with Nikolaj Trubetzkoy and S I Karcevskij, Jakobson founded this school of linguistics, named after a European city.

ANSWER: Prague School

- Breaking with Saussure, members of the Prague school argued that studies of language can be applied to either a language as it exists or a language as it changes. I identify the term that is given for either.

ANSWER: synchronic or diachronic

- Along with Halle and Fant, Jakobson argued that segmental forms of them could be characterized in terms of 12 features, though later Chomsky and Halle found that there were 30 of them. Occurring in pairs of binary opposites, these are coherent distinctive speech sounds.

ANSWER: phonemes

12. For 10 points each, give the UNIX/Linux command for the following operations.

- Changing the directory

ANSWER: cd

- Displaying the contents of a text file on the screen

ANSWER: cat

- Finding a string of text or a pattern of text in a file

ANSWER: grep

13. Given a painting with a storm in it, tell who painted it for 10 points.

- *Old Walton Bridge*, as well as *Stone Mason's Yard*

ANSWER: Canaletto [or Giovanni Antonio Canal]

•1505's *The Tempest*

ANSWER: Giorgione [or Giorgio Barbarelli; or Giorgio da Castelfranco]

•*Rain, Steam, and Speed*, as well as *Fishermen at Sea*

ANSWER: Joseph Mallord William Turner

14. Name these works of Kurt Vonnegut for 10 points apiece.

•It begins "This is the closest I will ever come to writing an autobiography." About a third of its paragraphs end with "Hi ho." A dream described within it concerns Dr. Wilbur Daffodil-11 Swain, who sells the Louisiana Purchase to the King of Michigan for a dollar.

ANSWER: Slapstick, or, *Lonesome no More!*

•In this novel, Winston Niles Rumford discovers that "everything that ever has been always will be, and everything that ever will be always has been." It also describes a Martian invasion of earth and the Church of God Utterly Indifferent.

ANSWER: *The Sirens of Titan*

•Pontiac dealer Dwayne Hoover goes insane after reading a book by Kilgore Trout. Vonnegut enters this novel as Philboyd Sludge, informing Trout that he and other recurring characters will no longer be appearing.

ANSWER: *Breakfast of Champions*; *Goodbye Blue Monday*

15. For 10 points each, name these people involved in the final report on Whitewater, which was issued in March 2002.

•Kenneth Starr's successor as independent counsel, he issued the report shortly before resigning the office to seek the Republican nomination for the Senate from New Jersey.

ANSWER: Robert Ray

•The attorney for Bill and Hillary Clinton who called the investigation "the most expensive exoneration in history."

ANSWER: David Kendall

•This man, Clinton's successor as governor of Arkansas, was convicted on three counts of fraud in 1998 as a result of the investigation.

ANSWER: James "Jim" Guy Tucker, Jr

16. Name these Roman historians for 10 points each.

•An opponent of Milo as tribune of the plebeians, and later a supporter of Caesar who was in charge of placating the revolting army veterans, his works include *The Catilinian War*, *The Jugurthian War*, and the *Five-Book History* of the period 78 to 67 BCE.

ANSWER: Gaius Sallustius Crispus

•After being fired from a position as Hadrian's secretary, he wrote of the rulers between Julius Caesar and Domitian in *Lives of the Caesars*.

ANSWER: Gaius Suetonius Tranquillus

•This author of the now fragmentary *On Famous Men* also wrote the *Chronica* and was the dedicatee of Catullus's poems.

ANSWER: Cornelius Nepos

17. Name these logicians for 10 points each.

•This author of *The Nature and Meaning of Numbers* has a namesake "cut" which defines irrational numbers, invented the concept of the ideal in ring theory, and created a definition of an infinite set independent of the concept of numbers.

ANSWER: Julius Wilhelm Richard Dedekind

•Dedekind's arithmetic axioms were named for this man who revised them later. He also proved that the first order differential equation $dy/dx = f(x,y)$ has a solution if $f(x,y)$ is

continuous, invented space-filling curves, and worked on a grammar-less artificial language called "Latino sine flexione."

ANSWER: Giuseppe Peano

•He claimed that the use of language controls the perception of what exists in *Word and Object* and *An Intermittently Philosophical Dictionary*.

ANSWER: Willard Van Orman Quine

18. Name these groups from Greek myth for 10 points each.

•With a hundred arms and fifty heads each, there were three of these creatures: Cottus, Briareus, and Gyges. Uranus had them imprisoned in Tartarus, leading to Gaia's request for Cronus to castrate Uranus.

ANSWER: hecatonchires [accept centiman]

•Living on Mount Pelion, they were the result of Ixion getting with a cloud.

ANSWER: centaurs

•Married to the fifty sons of Aegyptos, all of them except Hypermnestra killed their husbands. The rest of them eternally poured water into a jug full of holes in Hades.

ANSWER: Danaides

19. Name these Portuguese royal houses for 10 points each.

•Alfonso Henriques, son of the last man to govern Portugal as a province of Castile, brought this house to Portugal in 1139. It lasted until the death of Ferdinand in 1383.

ANSWER: Burgundy

•Named for the knightly order led by its first king, John, this house lasted from 1385 to the 1580 overthrow of Henry the Chaste by Spain.

ANSWER: Aviz

•Spain was expelled in 1640 under John the Restorer, who brought the name of his dukedom to this royal line, which lasted until Manuel II abdicated to Republican pressures in 1910.

ANSWER: Braganza [or Braganca]

20. Name these Argentinian presidents for 10 points each.

•He was president and leader of the Justice Front of Liberation from 1946 to 1955 and again from 1973 to 1974, when he was succeeded by his third wife Isabelita.

ANSWER: Juan Domingo Perón

•The only member of the Civic Radical Union to become president, he ended an eight-year military government in 1983 and remained in office until 1989.

ANSWER: Raúl Alfonsín

•Succeeding Alfonsín, this former Peron supporter ruled for ten years. In 2001, he announced plans to marry Chechi Bolocco, Miss Universe 1987, and make another run at the presidency.

ANSWER: Carlos Saúl Menem