

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 M TOSSUPS

1. Max Frisch's play about this character was subtitled "or, the Love of Geometry." José Moral's play about him, the most popular Spanish play of the nineteenth century, added "Tenorio" to his name. He first jumped from folklore to literature in Tirso de Molina's "The Libertine of Seville." FTP, name this title character of he a sixteen-canto epic satire by Lord Byron, a notorious and unrepentant seducer.

ANSWER: Don Juan

2. Set all overlap integrals and all resonance integrals between nonneighbors equal to zero. All remaining resonance integrals are equal to beta. The result is a matrix with a diagonal row of the quantity of alpha minus the energy with off-diagonal elements being the resonance integrals equal to beta. Find the determinant, set it equal to zero, and solve for the energy. FTP, name this process for calculating the resonance energy of conjugated molecules.

ANSWER: Huckel approximation

3. Created in the mid 1970s for use on IBM's System R, it contains all of the fundamental operations from relational algebra as well as system administration controls. While it lacks common programmatical constructs, its declarative style allows for easy embedding in host applications. In 1979, Oracle released its first commercial implementation, and it inspired the name for Microsoft's enterprise database. FTP, name this language for querying relational databases.

ANSWER: SQL

4. One member of this school said "I would rather go mad than experience pleasure," reflecting its belief in virtue for its own sake and advocacy of simplistic asceticism. With such members as Menippus and Crates, they believed that civilization was an artificial state, had no metaphysics, and preferred an exchange of barbs to prolonged debate. They received their name from their chief exponents' habit of barking at passersby. FTP, name this school, founded by Antisthenes but popularized by the pupil Diogenes.

ANSWER: Cynics [or Cynicism]

5. In March 2002, he spoke on behalf of the Group of 77 to the the International Conference on Financing for Development, speaking, in his words, for "all the poor of the planet." Meanwhile, his appointment of political cronies to direct the state oil monopoly caused a strike. He has won election twice despite the fact that crime and inflation have remained steady during his term and he was once jailed after a coup attempt. FTP, name this president of Venezuela.

ANSWER: Hugo Chávez

6. She is the daughter of the mountain king and Mena, who prayed to have a daughter after the birth of her brother Mainaka. She became divine after jumping into a fire to

avoid hearing her father talk ill of her future husband. She forms half of Ardhanari and is the mother of Skanda and Ganesha. FTP, name this goddess, the goodly aspect of the wife of Shiva.

ANSWER: Parvati [or Bhavani; or Girija; or Shailaja; or Sarvamangala; or Uma]

7. He wrote in opposition to U.S. intervention in Latin America without the consent of a Pan-American council. Serving as an assistant to Henry Stimson and as Taft's Secretary of War, after serving as chair of the War Labor Policies Board in World War I he became active in the American Zionists and helped found the ACLU, leading to his working for the defense in the Sacco and Vanzetti Trial. He abandoned his powerful commitment to judicial self-restraint in cases like *Brown v. Board of Education*. For 10 points, name this associate justice, nominated by FDR, who dissented in *Baker v. Carr*, contending that precedent was the most important part of a judge's decision.

ANSWER: Felix Frankfurter

8. He left the play "The Sad One" unfinished by poisoning himself in Paris, the result of an attempt to free the Earl of Strafford from the Tower of London. Different tragic and happy endings were written for "Aglaura," which included the poem "Why so pale and wan, fond lover?" Other poems, such as "Love, Reason, Hate," "The Siege," and "Ballad Upon a Wedding," are included in *Golden Fragments*. FTP, name this man who codified the rules of cribbage and wrote *The Wits: Sessions of the Poets*.

ANSWER: Sir John Suckling

9. After he became president, he sent oil workers union head Joaquín Hernández Galicia to jail for calling him a murderer. In fact, he was never punished for shooting a servant to death as a teenager. Declared the winner of the election after a "computer glitch" destroyed thousands of ballots marked for Cuauhtémoc Cárdenas, he instituted the breakup of *ejidos*, privatized industry, and ended official anticlericalism while bringing Mexico into NAFTA. FTP, name this man, president of Mexico from 1988 to 1994.

ANSWER: Carlos Salinas de Gortari

10. The left side of this canvas is dominated by startling reds and yellows, and the many trees surround a bare pink patch of sky. Two figures, one in the foreground, one towards the back on the right, are playing instruments that appear to be flutes, while two nude women repose languidly, and a man and a woman are wrapped in an erotic embrace on a patch of grass in the right foreground. Yet the most recognizable portion of the painting may be the circle of nude women who dance in the yellow center of this Fauvist masterpiece. FTP identify this work by Henri Matisse.

ANSWER: *The Joy of Life* [or *Le Bonheur de Vivre*]

11. After his fourteen-year control of the country ended, he served in Parliament until his 1986 expulsion and is now an independent farmer. He succeeded Winston Field as national leader, issuing the Unilateral Declaration of Independence which led to sanctions from Britain and the rest of Africa alike. He eventually resigned under pressure from the Patriotic Front of Robert Mugabe. FTP, name this founder of the Rhodesian Front and prime minister of independent Rhodesia from 1965 to 1979.

ANSWER: Ian Douglas Smith

12. He was almost jailed after creating an obscene film adaptation of *My Secret Life*. Other early-70s projects included *Foxy Lady* and *Cannibal Girls*. A producer on *Meatballs*, *Beethoven*, and *Animal House*, he directed Arnold Schwarzenegger in *Junior*,

Twins, and *Kindergarten Cop*. FTP, name this director of *Dave*, *Evolution*, and *Ghostbusters*.

ANSWER: Ivan Reitman

13. He is the author of a letter to Governor Nicholas Cooke which requested that Rhode Island begin arming for war. The seizure of his ship, the *Liberty*, for smuggling in 1768 prompted Bostonians to riot and recapture the ship before the British responded in kind. He was a nine-time governor of Massachusetts and president of the Continental Congress from 1775 to 1777. FTP, name this man who put the first and largest signature on the Declaration of Independence.

ANSWER: John Hancock

14. William de Melleun, the archbishop of Sens, was captured by Thomas de Beauchamp, the Earl of Warwick. The battle began when the English aligned themselves behind a hedge, forcing the French to cross a narrow gap under heavy fire. Captal de Buch came around the rear, encircling the French and leading to the capture of John II. FTP, name this Hundred Years War battle, a 1356 victory for the longbowmen of Edward the Black Prince's army.

ANSWER: Poitiers [or Maupertuis]

15. This range divides the climate, with the areas to the west receiving much more precipitation than those to the east. Meager Mountain and Mount Garibaldi are at its northern end, while its southerly area includes Black Butte, Mount Shasta, and Lassen Peak. Dozens of volcanoes are scattered throughout. FTP, name this mountain range which includes Mount St. Helens and Mount Ranier.

ANSWER: Cascade Mountains

16. His poetry collections include *Constellations*, based on a series of Joan Miro paintings; *Arcane 17*; and *Mad Love*, based on the story of Cinderella. His chief work of fiction is the novel *Nadja*, in which he writes "Beauty will be convulsive or will not be at all." With Louis Aragon and Philippe Soupault, he founded the review *Littérature*, which led to a new movement. FTP, name this author who advocated what he called "pure psychic automatism" and "the absence of all control by the reason" in the Surrealist Manifesto.

ANSWER: André Breton

17. Depending upon size, you want one hundred to one thousand of these per plate, in order to prevent overlap and statistical errors when ^{titrating} ~~titrating~~. These holes are the result of decreased turbidity caused by successive rounds of phage replication and bacterial cell lysis. FTP, name these clearings in a bacterial lawn.

ANSWER: plaques

18. She first appears catching a thrown package of meat and accompanying her husband to the bowling alley. After her husband strikes her while she is pregnant, she escapes to the Hubbels' apartment but returns. A fight over returning her sister to Laurel results in her hospitalization, then her husband rapes her sister and connives to have the latter institutionalized. FTP, name this wife of Stanley and younger sister of Blanche in "A Streetcar Named Desire."

ANSWER: Stella DuBois Kowalski

19. The most widely used general-purpose one is the 741. Most are formed of a single silicon chip which forms a monolithic integrated circuit. These circuit elements have a high input and low output impedance and low power consumption, and they can operate on low supply voltages. FTP, name this differential form of a device that is used to get a voltage gain.

ANSWER: operational amplifier

20. The date of his death, December 17, is commemorated as *Sebul Arus* or the Night of Union. His followers became the Mawlawi, a sect of Sufi dervishes who perform his *sama* dance and often make pilgrimages to his tomb at Konya. He wrote thirty thousand verses about the disappearance of his mentor, collected as the *Shams-I-Tabriz*. FTP, name this mystical Persian poet of many *ghazals* and the *Mathnawi*.

ANSWER: Jalal al-Din Rumi [or Khudawandagar Jalal al-Din Mubammad; or Khamush; or Mulla-yi rum; or sirr Allah al-a'zam]

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PACKET M BONI

1. Name the composer from works, 30-20-10.

30: The operas *Orlando Paladino* and *Armida*

20: 83 string quartets, 62 sonatas, and the cantatas *Arianna at Naxos* and *Berenice che Fai*

10: 104 symphonies, including the *Surprise*, *London*, and *Clock*

ANSWER: Franz Joseph **Haydn**

2. Given its capital, name the Australian state for 10 points each.

•Sydney

ANSWER: **New South Wales**

•Adelaide

ANSWER: **South Australia**

•Brisbane

ANSWER: **Queensland**

3. Name these bad Roman Emperors for 10 points each.

•The elder son of Septimus Severus, he made all free males in the Empire citizens in order to increase tax revenue and finance his payoffs of the military. Other dubious achievements included killing all the adults in Alexandria and assassinating his brother and twenty thousand of the latter's supporters. His legacy lives on in bath form.

ANSWER: **Caracalla** [or Marcus Aurelius **Severus Antoninus** Augustus]

•This aforementioned brother and co-ruler of Caracalla is most known for being killed.

ANSWER: Publius Septimius **Geta**

•The force behind the assassination of Caracalla, this leader of the Praetorian Guard did manage to engineer a peace treaty with Parthia in his reign of about a year. Upon learning that Elagabalus planned to kill him and assume the throne, he bravely disguised himself as a courier and attempted to escape.

ANSWER: Marcus Opellius **Macrinus**

4. Answer the following about the recent priestly sexual abuse scandal for 10 points per part.

•In February 2002, this priest was sentenced to a nine-year prison term for indecent battery. He faces two more trials for similar acts.

ANSWER: John J. **Geoghan**

•Geoghan worked under the archdiocese of this city.

ANSWER: **Boston**

•The thrust of the scandal is that this Cardinal of the Boston archdiocese failed to take action after he was made aware of Geoghan's behavior.

ANSWER: Bernard **Law**

5. For 10 points apiece, name these things involving electricity.

•This is the process of putting impurities in a substance to make the substance more conductive.

ANSWER: doping

•This property of metals causes them to change shape when a current is run through them.

ANSWER: piezoelectricity

•This is the product of the magnitude of the charge on either end and the distance between the two charges. Its cross product with the electric field gives the torque on the system.

ANSWER: dipole moment

6. Answer these questions about people named Sidaris for 10 points each.

•Amy Sedaris starred as Jerri Blank on this Comedy Central series set at Flatpoint High School.

ANSWER: Strangers With Candy

•Andy Sidaris wrote, produced, and directed this 1985 film in which Darby Hinton, Sybil Danning, and Lori Sutton attempt to stop Russian espionage with softcore nudity, which was doubly patriotic in that this movie seemed destined for the USA network.

ANSWER: Malibu Express

•In 2000, David Sedaris released this essay collection, which discusses speed addiction and the difficulties of moving to France.

ANSWER: Me Talk Pretty One Day

7. Name these relatives of Cadmus for 10 points each.

•His sister, she was abducted by Zeus in the form of a white bull and became the mother of Minos, Sarpedon, and Rhadamanthys. Later marrying Asterius, she possessed a bronze guard named Talos, the dog Laelaps, and a magic javalin.

ANSWER: Europa

•This king of Tyre, the father of Cadmus and Europa, sent Cadmus and his brothers in search of Europa upon the latter's disappearance.

ANSWER: Agenor

•This daughter of Cadmus married King Athamas. She displaced the king's first wife, Nephele, and attempted to sacrifice Nephele's son Phrixes but was stopped by the appearance of a golden ram. The mother of Athamas, Learchus, and Melicertes, she became the goddess Leucotha after drowning herself at the Molurian Rock.

ANSWER: Ino

8. Name these Belgian kings for 10 points each.

•King from 1865 to 1909, he was given the Congo as his personal property at the Berlin Conference but transferred the territory to the Belgian state in 1908 after international protest of his exploitative policies.

ANSWER: Leopold II [prompt on Leopold]

•The successor to Leopold II, he led a liberal reform program in the Congo and commanded the Belgian resistance in World War I.

ANSWER: Albert I [prompt on Albert]

•Succeeding after the 1951 abdication of his father, the reviled Nazi collaborator Leopold III, and ruling until his death in 1993, he presided over the transformation of Belgium into a federal state.

ANSWER: Baudouin I

9. Name these theorems from number theory for 15 points each.

•If a bounded set in \mathbb{R}^N contains infinitely many points, then there is at least one point in \mathbb{R}^N which is an accumulation point of the set.

ANSWER: **Bolzano-Weierstrass** theorem

•Every integer n greater than 1 can be represented as a product of prime factors in only one way, apart from the order of the factors.

ANSWER: **unique prime factorization** theorem

10. Answer the following about two books and their author for 10 points each.

•A collection of short stories first published in *Scribner's Monthly*, it contains "Jean-Ah Poquelin" and "Café des Exiles."

ANSWER: ***Old Creole Days***

•Its tale of the enslaved prince Bras-Coupe inspired Leo Delibes's opera *Koanga*. The main plot concerns the feud between the title family and the De Grapions.

ANSWER: ***The Grandissimes: A Story of Creole Life***

•This author of *Old Creole Days* and *The Grandissimes* also wrote *Dr. Sevier* and *John March, Southerner*.

ANSWER: George Washington **Cable**

11. Answer these questions about wind for 10 points each.

•This deflective force caused by the Earth's rotation causes wind moving in a straight path to appear to move to the right or left depending on the hemisphere.

ANSWER: **Coriolis** force

•Geostrophic winds in the upper atmosphere exhibit these undulations discovered directly from mathematical calculations by a meteorologist in 1938.

ANSWER: **Rossby** waves

•These winds, also called gravity drainage winds, are on a regional scale and require air moving downslope off of an elevated plateau.

ANSWER: **katabatic** winds

12. Name these related groups of organisms for 10 points each.

•Organisms from this phylum have an internal system of water-filled canals which, in many, form tube feet. It's the largest phylum to lack any freshwater or land constituents.

ANSWER: **echinodermata**

•This echinoderm has no sharp demarcation between the appendages and central body, and movement is made possible by tube feet. Most are predators feeding on slow-moving prey, and some can expel a portion of their stomachs out through their mouth to digest food outside of the body. They comprise the class Asteroidea.

ANSWER: **starfish**

•Movement of this type of echinoderm is achieved by wiggling long flexible arms which are supported by an internal structure of calcium carbonate, and are clearly demarcated from the disk-shaped body. They comprise the class Ophiuroidea.

ANSWER: **brittle stars**

13. Name these characters from the *commedia dell'arte* for 10 points each.

•A singer and dancer, he plays dual roles as both an adulterer and a cuckold and either a faithful or treacherous servant. He wears a large hat and a short hat as well as a mask with a beard and large nose, and he carries a wooden sword.

ANSWER: **Mezzetino** [or **Metzetin**]

•Physically dexterous and amoral, this lecher wears a black mask with a short nose.

ANSWER: **Arlecchino** [or **Harlequin**]

•Inspired by the *miles gloriosus* of Roman comedy, he is incessantly and dishonestly boasting of his noble status and prowess in battle. A thief, he wears a mask with a large nose and contemporary dress.

ANSWER: the Braggart Captain [prompt on soldier or equivalents]

14. Answer the following about two works and their author for 10 points each.

•This novel tells a story about Pontius Pilate's condemnation of Jesus; a contemporary, realistic story of the title characters in Moscow; and a supernatural story of the devil Woland springing from the pages of Faust to right the problems of Soviet society.

ANSWER: *The Master and Margarita* [or *Master i Margarita*]

•Based on the same author's novel *The White Guard*, this play was liked by Stalin but could not avoid censorship due to its positive depiction of officers in the White army and a monarchist family in Kiev. Passages from its reviews by party-line critics were later worked into fictional reviews of the Master's work in *Master and Margarita*.

ANSWER: "The Days of the Turbins" [or "Dni Turbinykh"]

•This author of *Master and Margarita* and "Days of Turbins" also wrote "Zoya's Apartment," "The Crimson Island," and "The Heart of a Dog."

ANSWER: Mikhail Afanasyevich Bulgakov

15. Answer the following about the Grant administration for 10 points per part.

•Massachusetts Representatives Oakes Ames and James Brooks were censured after receiving kickbacks from this Union Pacific shell company.

ANSWER: Crédit Mobilier

•These twin acts of the same name were signed in 1870 and 1871 and authorized the President to declare martial law in order to protect voting rights in the South.

ANSWER: Force Acts

•Grant appointed this man the first solicitor general in 1870. As Treasury Secretary from 1874 to 1876, he exposed the Whiskey Ring. He unsuccessfully opposed Rutherford Hayes for the 1876 Republican nomination.

ANSWER: Benjamin Helm Bristow

16. For 15 points each, answer the following about an October 1999 plane crash which is again in the news.

•Flight 990 of this airline crashed as the co-pilot repeated the phrase "I rely on God."

ANSWER: EgyptAir

•The investigation into whether this man, the co-pilot, intentionally brought down the plane may be re-opened.

ANSWER: Gameel El-Batouty

17. Name these Tom Stoppard plays for 10 points each.

•This play retells events of "Hamlet" from the perspective of two characters who think that the play is about them.

ANSWER: "Rosencrantz and Guildenstern Are Dead"

•The critics Moon and Birdboot watch Ally Wolfe play Cynthia Muldoon. Birdboot runs onto the stage to answer the phone and is brought into the play by Mrs. Drudge. Moon then becomes the title character and the actors become the critics.

ANSWER: "The Real Inspector Hound"

•Septimus Hodge and Thomasina Coverly discuss what "carnal embrace" is at the opening of this play about science. Other characters include Jellaby, Ezra Chater, and Bernard Nightingale.

ANSWER: "Arcadia"

18. Answer the following about relations between Quebec and the rest of Canada for 10 points per part.

- The leader of the Union Nationale Party from 1936 to his 1959 death, he promised "Cooperation always, assimilation never" in his attempts to keep Quebec culturally distinct.

ANSWER: Maurice LeNoblet Duplessis

- This 1987 agreement signed by Robert Bourassa guaranteed that Quebec would remain "a distinct society" and moved certain powers to the provincial level. It did not come into force due to Newfoundland and Manitoba's refusal to ratify it.

ANSWER: Meech Lake Accord [prompt on Constitutional Accord of 1987]

- Founded by Lucien Bouchard at the failure of the Meech Lake Accord, this party was once the second-largest in the Canadian parliament but now holds only 38 seats.

ANSWER: Bloc Québécois

19. Given the second line of an Emily Dickinson poem, give the first line for 10 points each.

- "From tankards scooped in pearl"

ANSWER: "I taste a liquor never brewed"

- "The stillness round my form"

ANSWER: "I heard a fly buzz when I died"

- "That never wrote to me"

ANSWER: "This is my letter to the world"

20. Name these people who held high positions in the government of China during the 1960s for 10 points each.

- The minister of defense from 1959 to 1966, he compiled the *Little Red Book*. He disappeared in 1971; a year later, the government claimed that had died in a plane crash while attempting to flee the country.

ANSWER: Lin Biao

- Lin replaced this man as designated heir to Mao. Nominally head of state from 1959 to 1968, he was the prime target of the Cultural Revolution.

ANSWER: Liu Shaoqui

- Chairman of the National People's Congress from 1959 to 1967, he was also the commander of the Long March and the commander-in-chief of the military from 1949 to 1954.

ANSWER: Zhu De