

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 E TOSSUPS

1. His minor works include the novel *Vassall Morton* and *The Book of Roses*, which led to an appointment as professor of horticulture at Harvard. From 1851 to the end of his life, he studied the conflict in colonial North America between Britain and France, publishing such works as *Montcalm and Wolfe* and *The Old Regime in Canada*. He lived with the Sioux and traced the namesake route while researching another book. FTP, name this author of *History of the Conspiracy of Pontiac* and *The Oregon Trail*.

ANSWER: Francis Parkman

2. Discovered by George Palade in 1956, types of these spermidine-containing organelles include free, which float in the cytoplasm of the cell, and bound, which are attached to the rough endoplasmic reticulum. FTP, name these large complexes of proteins and certain RNA molecules, the site of translation or protein synthesis.

ANSWER: ribosomes

3. They migrated from the north in the eighth century CE. Their king Topiltzin was exiled for opposing human sacrifice but ironically became deified as Quetzalcoatl. The first North American tribe to conquer a large area by force, their first capital was at Tula, then they revitalized the Mayan site of Chichén Itzá. FTP, name this nation which controlled Mexico from the tenth century CE until the 12th century victories of the Chitimecs and Aztecs.

ANSWER: Toltecs

4. In 1942, he delivered a speech which linked alcoholic temperance to the war effort. He was interested in another kind of spirit, often reading tea leaves while mulling policy questions. His second government collapsed after he refused to dispense aid to provinces governed by the opposition party during the Depression, but he nonetheless became the first Canadian to receive the Order of Merit. FTP, name this leader of the Liberal Party from 1919 to 1948 and three-time prime minister.

ANSWER: William Lyon Mackenzie King

5. Justice Vinson wrote in this ruling, "In each case, the courts must ask whether the gravity of the 'evil' discounted by its improbability, justifies such invasion of free speech as is necessary to avoid danger." Although the arrests of the plaintiffs were upheld, an expanded effort against the same organization six years later was struck down in *Yates v. U.S.* FTP, name this 1951 decision upholding the constitutionality of the anti-communist Smith Act.

ANSWER: Dennis et al. v. United States

6. "You cannot weave them in the panel with Doc and Ed and Johnny; I mean, it's just impossible." They will "infect your soul, curve your spine and keep the country from winning the war." One of them is "the beginning of life, and, yet it's" used "to hurt one another, quite often." One of them "sounds like a snack." Some of them contain Ks that

are "aggressive sounds; they jump out at you." FTP, identify these vocabularial entities from a George Carlin routine.

ANSWER: Seven Dirty Words [prompt on partial answer]

7. This city's historic markets include Jubilee, Queens, Redemption Ground, and Coronation. The Torrington Bridge separates this city into different neighborhoods, such as Rema, Jungle and Lizard Town. Sitting south of the Blue Mountains on the Liguanea Plain, it became the capital on a permanent basis in 1872, 180 years after it began as a refugee camp for the survivors of Port Royal. FTP, name this capital city of Jamaica.

ANSWER: Kingston

8. This orthorhombic mineral has crystal shapes that are amalgams of three prism types, three pinacoids, and a dipryamid. It exhibits conchoidal fracture, a vitreous luster, and a hardness between 6.5 and 7. Its general chemical formula is $(\text{Mg,Fe})_2\text{SiO}_4$, but it exists as a solid solution series ranging from the fosterite to fayalite. FTP, name this green nesosilicate, whose precious gemstone form is called peridot, and which is a principle rockforming mineral in such igneous rocks as gabbro and basalt.

ANSWER: olivine

9. Let A be a linear transformation represented by a matrix and X be a vector in R_n that does not equal the zero vector. Solving $x_2 - x \text{Trace}(A) + \det(A) = 0$ for a two by two matrix is just one of the many ways to find these important values, the solutions of the equation $(A - \lambda I) X = 0$. FTP, name this values also known as characteristic roots, proper values, or latent roots, the solution of the characteristic equation of a given matrix.

ANSWER: eigenvalues

10. It released ISPs from liability for any voluntary disclosure of information, expanded the federal DNA database, and enhanced the penalties for violating the Computer Fraud and Abuse Act. It also authorized use of the Carnivore e-mail reader, revised the legal definition of terrorism, and expanded the permissible uses of roving wiretaps. FTP, name this law passed in October 2001, opposed by only sixty-six Representatives and one Senator.

ANSWER: USA Patriot Act [prompt on USAPA]

11. Critics of this group note that many of its members practice flagellation, it seeks lengthy commitments from minors, and it is led by celibate numeraries who live in secluded compounds. The current Papal spokesman, Joaquin Navarro-Valls, was a member, and before becoming Pope, John Paul often prayed at the tomb of the man who founded it in 1928, Josemaria Escriva. FTP, name this Catholic prelate organization which promotes loyalty to the Pope, the infallibility of dogma, and individual piety.

ANSWER: Opus Dei

12. His lyrical leanings provided inspiration to composers: Ned Rorem set "The Snake" and Samuel Barber joined his works with those of Graves and Joyce in *Despite and Still*. The son of a gardener, he often used images of plants and flowers in his poems. His collections include *Words for the Wind*, *Open House*, and *The Waking*. FTP, name this author of "Pickle Belt," "I Am! Said the Lamb," "I Knew A Woman," and "Elegy for Jane."

ANSWER: Theodore Roethke

13. Its title and many images within the story are taken from Psalm 55, while the female protagonist is based on *Mansfield Park*'s Mary Crawford. The rich Lord Mark is Aunt Maud's preferred candidate for marriage. Two lovers hatch a plan to inherit the money of a terminally ill woman, but Merton Dencher finds himself feeling guilty about seducing Milly Theale. FTP, name this novel in which Kate Croy's scheme fails, by Henry James.

ANSWER: *The Wings of the Dove*

14. He convened the General Council of Vienne, which resolved to suppress the Béguins and Beghards and dissolve the Knights Templar. His rule saw the appointment of Robert of Naples end the War of the Ferrarese Succession with Venice. At the insistence of Edward I, he suspended the Archbishop of Canterbury, Robert Winchelsey, but it was his relationship with another king that led to a certain 1309 decision. FTP, name this Pope, patronized by Philip IV of France, who moved the papacy to Avignon.

ANSWER: Clement V [prompt on Clement; accept Bertrand de Got]

15. When the World's Fair rejected this work, its creator organized the Realist Pavillion to exhibit it. It is six meters wide and depicts seven years of the creator's life, while making subtle jabs at the reigning king. Two nudes, a skull, several dogs, a small boy, and a host of spectators watch the central figure at work. FTP, name this "real allegory," an 1855 painting by Gustave Courbet.

ANSWER: *Inside the Artist's Studio* [or *The Painter's Studio: A Real Allegory*]

16. He served on a court which heard extortion cases before becoming consul, and his proconsular appointment was to the drainage board. His next assignment was to reform the government of Bithynia. The teacher of Suetonius, his writings describe the composition of Tacitus's histories and the eruption of Mount Vesuvius. FTP, name this Roman epistler whose work largely consists of correspondence with Trajan.

ANSWER: Pliny the Younger [or Gaius Plinius Caecilius Secundus; prompt on Pliny; prompt on Plinius]

17. He was the patron of Nippur, the site of his chief temple. The father of Nanna, Nerigal, Ningirsu, Ninurta, and Nisaba, he wears a horned crown and controls the Tablets of Destiny, the source of supreme power in his pantheon. The son of An and Ki, he sent the great flood to destroy humanity. FTP, name this god of air, wind and storms in Mesopotamian myth.

ANSWER: Enlil [or Kur-Gal; or Ellil]

18. This book claims that "All men who repeat one line of Shakespeare are William Shakespeare" in "Tlon, Uqbar, Orbis Tertius." Other stories include "The Secret Miracle," "Three Versions of Judas," "Pierre Menard," and "The Library of Babel." It is divided into two sections: The Garden of Forking Paths and Artifices. FTP, name this 1945 short story collection by Jorge Luis Borges.

ANSWER: *Ficciones*

19. He wrote two dictionaries as well as books such as *Your City* and *The Teaching of Controversial Subjects*. As part of his attempts to show that math and language are not prime in conditioning the young mind, he encouraged elementary schools to teach more natural and social sciences. His theory of "connectionism" states that trial and error forms neural connections which govern future responses. FTP, name this American psychologist, author of *Mental and Social Measurements* and *Human Nature and the Social Order*.

ANSWER: Edward Lee Thorndike

20. Their constituents can be rod-shaped, coin-shaped, and more recently cone-shaped. Thermotropic ones are made by changing the temperature of a substance, while lyotropic ones are made by the addition and removal of a solute, resulting in an aggregate of micelles. Most useful is the nematic phase, in which the molecules are randomly placed but aligned in a single direction with easily disruptable molecular order. FTP, name this intermediate form of matter, which is aligned by electrodes to block or transmit polarized light in computer and calculator displays.

ANSWER: liquid crystal

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PACKET E BONI

1. Name these Donizetti operas with female title characters for 10 points each.

- The title character stands up to the temptation of Richard Percy and eventually goes mad in prison, recalling Hever Castle and her wedding day.

ANSWER: **Anna Bolena**

- Enrico tries to force the title character into a wedding with Arturo. At the end, Edgardo stabs himself in order to join her.

ANSWER: **Lucia di Lamermoor**

- Marie, who was found abandoned on a battlefield, tells Sulpice that Tonio has saved her life.

ANSWER: *The* **Daughter of the Regiment** [or *La* **Fille du régiment**]

2. Give the following complexities for a sequential search algorithm, for 10 points each.

- Big-O complexity

ANSWER: **n**

- Big-Omega complexity

ANSWER: **1**

- The Big-Theta complexity

ANSWER: **does not exist** [accept equivalents]

3. Name these members of the Roman monarchy for 10 points each.

- This Sabine was chosen as king after the death of Romulus. He created the 354-day calendar and instituted several religious orders.

ANSWER: **Numa** Pompilius

- The first Etruscan king, he took the throne after serving as guardian to Ancus Marcius's children. He expanded the wall around Rome and oversaw construction of the city's sewage system.

ANSWER: Lucius **Tarquinius Priscus** [prompt on partial answer]

- The third king, he destroyed Alba Longa and led the Roman assumption of control over the religious festivals of Latium.

ANSWER: **Tullius** Hositilius

4. Answer the following about alphabets and scripts for 10 points each.

- This blocky set of characters is used to write foreign words in Japanese. According to one webpage, they "all look exactly the same, and it's impossible, even for Japanese people, to tell them apart."

ANSWER: **katakana**

- Sanskrit and Hindi are written in this script.

ANSWER: **devanagari**

- Traditionally, Saint Mesrob developed the alphabet for this language, which exists in Yerevan and Turkish versions.

ANSWER: **Armenian**

5. 30-20-10, given pieces of legislation, name the monarch who issued them.

30: The Statute of Popular Schools, which established bilingual public elementary and secondary schools in every provincial capital.

20: The Charter to the Nobility, a Magna Carta-like document guaranteeing certain liberties to the nobles against the throne.

10: The *Nakaz*, or the Instructions to the Commissioners for Composing a New Code of Laws, a 655-article guide to legal reform largely plagiarized from Montesquieu.

ANSWER: Catherine the Great [or Catherine II; or Sophie Auguste Friederike of Anhalt-Zerbst; prompt on Catherine]

6. Given a European country, name its second largest city by population for 10 points each.

- Hungary

ANSWER: Debrecen

- Italy

ANSWER: Milan

- Sweden

ANSWER: Gothenburg

7. Name these defunct things from the world of automobiles for 10 points each.

- Bought by Renault in 1987, it once manufactured the Rambler, Hornet, Gremlin, and Pacer.

ANSWER: American Motors Corporation [accept AMC]

- It made the Fairlady Roadster, the Bluebird, and the Sunny before changing its name to Nissan in 1982.

ANSWER: Datsun

- This egg-like, single-doored Renzo Rivolta model was sold to BMW, which produced a three-wheeled version for the British market until 1962.

ANSWER: Iso Isetta

8. Answer the following about an Indian emperor for 10 points per part.

- Succeeding Bindusara in 272 BCE, this Mauryan ruler dedicated the latter part of his reign to spreading Buddhism.

ANSWER: Asoka

- Asoka is said to have converted to Buddhism after the violent conquest of this eastern land in 260.

ANSWER: Kalinga

- As part of his missionary campaign, Asoka built a 240-foot stupa and a pillar which proclaimed excommunication as the penalty for heresy among monks at this site, held to be the location of Buddha's first sermon.

ANSWER: Sarnath

9. Answer the following about monopolies for 10 points each.

- Only occurring in monopolies due to lack of competitive pressure, this occurs when actual production costs are always greater than minimum possible costs.

ANSWER: x-inefficiency

- A rule of thumb for monopolies states that the maximum profit point occurs where these two quantities are equal.

ANSWER: marginal cost and marginal revenue

- Economic profit in a monopoly is found by creating a rectangle between the point on the demand curve for the quantity value where marginal cost and marginal revenue are

equal, then drawing lines to the price axis and a vertical line to this curve. The area of the resulting rectangle is the economic profit.

ANSWER: average total cost

10. Name these ancient philosophers for 10 points each.

- The founder of skepticism, this Elisian, a student of Anaxarchus, spoke against objectivity and in favor of non-judgment.

ANSWER: Pyrrho

- This author of the *Enneads* taught of emanation and the striving for the Absolute Being. He is considered the founder of Neo-Platonism.

ANSWER: Plotinus

- He believed in the primacy of air, holding that other substances are created through rarefaction and condensation.

ANSWER: Anaximenes

11. Name these characters from *The Picture of Dorian Gray* for 10 points each.

- This decadent aristocrat speaks against morality and encourages Dorian's debauchery.

ANSWER: Lord Henry Wotton [accept Lord Henry Wotton; accept Lord Harry Wotton]

- This painter creates the title picture. Dorian kills him and forces Alan Campbell to destroy his body.

ANSWER: Basil Hallward [accept Basil Hallward]

- This brother of a woman who killed herself for Dorian's love vows to kill Dorian but is briefly misled by Dorian's youthful appearance.

ANSWER: James Vane [prompt on Vane; accept Jim Vane]

12. For 15 points from clues about the plot or 5 from the name of the author, name these literary works dealing with labor strikes.

- 15: Jim Nolan and Dakin lead a strike against the Growers Association, leading to the destruction of Al's Lunch Wagon and the death of Joy.

5: John Steinbeck

ANSWER: *In Dubious Battle*

- 15: Agate and Joe attempt to rouse a group of taxi drivers into striking while performing the title action.

5: Clifford Odets

ANSWER: "Waiting for Lefty"

13. Name these literary critics for 10 points each.

- This Frenchman used semiotics, structuralism, and New Criticism in his approach. His works include *Mythologies*, *Writing Degree Zero*, and *On Racine*, and he advocated *nouveau roman* authors such as Alain Robbe-Grillet and Nathalie Sarraute.

ANSWER: Roland Barthes

- This pioneer of deconstructionism has written *Speech and Phenomena*, *Of Grammatology*, *Writing and Difference*, and *Spurs: Nietzsche's Styles*.

ANSWER: Jacques Derrida

- This American has written *Axel's Castle*, about symbolism; and *Patriotic Gore*, about Civil War literature. He has also produced original pieces such as *Night Thoughts*, *Memoirs of Hecate County*, and *I Thought of Daisy*.

ANSWER: Edmund Wilson

14. Answer the following about a 2002 election for 10 points per part.

•In this country, the United National Party swept almost all local council elections in a de facto referendum on a Norway-negotiated truce between the government and the Liberation Tigers of Tamil Eelam.

ANSWER: Democratic Socialist Republic of Sri Lanka [or Sri Lanka *Prajathanthrika Samajawadi Janarajaya*]

•The United National Party is led by this current prime minister of Sri Lanka.

ANSWER: Ranil Wickremesinghe

•The second-highest total went to the People's Alliance, led by this president of the country.

ANSWER: Chandrika Kumaratunga

15. Answer the following about Richard Nixon's visit to China for 10 points per part.

•Nixon spent most of the visit in talks with this Chinese prime minister.

ANSWER: Zhou Enlai

•On February 28, the two governments issued this document, which pledged "withdrawal of all U.S. forces...from Taiwan" and stated that "it would be against the interests of the peoples of the world for any major country to collude with another against other countries, or for major countries to divide up the world into spheres of interest."

ANSWER: Shanghai Communiqué

•Along with Nixon and Kissinger, the U.S. delegation was led by this Secretary of State, who was also attorney general under Eisenhower's second term.

ANSWER: William Pierce Rogers

16. Name these related things for 10 points each.

•These infective proteinaceous particles without nucleic acid genomes are responsible for Creutzfeldt-Jakob disease, fatal familial insomnia, kuru, and Alpers syndrome.

ANSWER: prions

•This 1997 Nobel Prize winner in Physiology or Medicine discovered prions.

ANSWER: Stanley B. Prusiner

•This is the proper name for mad cow disease, also caused by prions.

ANSWER: bovine spongiform encephalopathy

17. Name these wholly unrelated authors for 10 points each.

•This German's works include *The Train Was on Time*, *Billiards at Half-Past Nine*, *The Clown*, *The Lost Honor of Katharina Blum*, and *The Safety Net*.

ANSWER: Heinrich Böll

•One of the first Jewish writers to write in Russian, he described the lives of Jews and others in Odessa in such works as *Tales of Odessa*, *Red Cavalry*, "Maria," and *Liubka the Cossack*.

ANSWER: Isaak Babel

•Variously a Catholic, a Daoist, and a Communist, this Icelandic author's works include *The Fish Can Sing*, *The Great Weaver from Kashmir*, *The Book of the People*, and *World Light*.

ANSWER: Halldór Kiljan Laxness

18. For 5 points apiece, name the six simple machines.

ANSWER: wedge, screw, wheel and axle, inclined plane, pulley, and lever

19. 30-20-10, name the composer.

30: In the 1860s, he composed his First Mass in D minor, Second Mass in E minor, and Third Mass in F minor.

20: Due to his habit of revising already published works, no definitive numbering scheme exists for his symphonies, but it was this composer himself who dubbed his symphony in D minor "number zero."

10: He might have been able to get his symphonies right the first time if he'd not been distracted with the task of keeping his lips on Richard Wagner's ass.

ANSWER: Josef Anton Bruckner

20. Given a description, name the particle physics experiment, for 10 points each.

- This experiment will explore the physics of the neutral and charged weak interactions at CERN's LEP collider.

ANSWER: aleph

- Also at LEP, this experiment which ended in 2000 studied particles interactions by collecting and analyzing electron-positron collisions as well as Z^+ boson decay.

ANSWER: Omnipurpose Apparatus at LEP

- This will be the largest collaborative effort in physics ever. Carried out at the Large Hadron Collider at CERN, it will try to fill in holes in the standard model of particle physics.

ANSWER: ATLAS