

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 A TOSSUPS

1 After reading the works of I.M. Sechenov, he left the priesthood and created a doctoral thesis on "nervism," the belief that the nervous system leads the rest of the body. He developed three principles, determinism, analysis-and-synthesis, and structure, which shaped the study of reflexes. An experiment of his conducted at the Botkin Clinic was made possible by Glinskii's method of creating fistulas. FTP, name this physiologist whose work with dogs and bells led to the publication of *Conditioned Reflexes*.

ANSWER: Ivan Petrovich **Pavlov**

2. Their nominal purpose was to defend against both external and internal communist attacks on the government. Franz Epp commanded one which led an army of thirty thousand against the Bavarian Socialist Republic. In a 1920 putsch, Herman Ehrhardt and Wolfgang Kapp attempted to use theirs to take control of the government of Berlin. Upon Hitler's election as Nazi party leader in 1921, they were folded into the S.A. FTP, name these private armies led by World War I veterans during the Weimar Republic.

ANSWER: **Freikorps**

3. It grew out of the National Self-Service Organization but has recently disavowed the religious nationalism of that group in order to attract Muslim votes. Growing from 85 seats in parliament in 1989 to a plurality since 1998, it supports restrictions on foreign trade and nuclear expansion. FTP, name this party of Atal Bihari Vajpayee which currently controls the government of India.

ANSWER: **Bharatiya Janata** Party [or **Indian People's** Party; accept **BJP**]

4. Unknown individuals assassinated him near Pasto in 1830. His last public post was to the chair of a failed congress to preserve the unity of Gran Colombia earlier in that year. As a private resident of Quito in 1828, he repelled an invasion from Peru, which he had liberated four years prior. As Bolívar's chief lieutenant, he led the victorious forces at Pichinicha, Junín, and Ayacucho. FTP, identify this first president of Bolivia, for whom a capital of that country is named.

ANSWER: Antonio José de **Sucre**

5. On its discontinuous side, olivine crystallizes first, followed by clinopyroxene and orthopyroxene. As the temperature drops, hornblende and biotite are formed. Its continuous plagioclase branch ranges from calcium-rich anorthite to sodium-rich plagioclase. If felsic rock is formed, then the two branches unite to form a single silica-rich series consisting of potassium feldspar, muscovite, and quartz. FTP, name this theory on the crystallization of minerals from magma.

ANSWER: **Bowen's reaction series**

6. She sometimes used the pseudonym Nancy Boyd in her magazine articles, which included a series of pieces about Europe collected as *Distressing Dialogues*. She published her first poem, "Forest Trees," at age fourteen. While at Vassar, she wrote plays such as "The Princess Marries the Page." Her collections include *Second April* and

Wine From These Grapes. FTP, name this author of *The Ballad of the Harp-Weaver*, *A Few Figs From Thistles*, and *Renascence*.

ANSWER: Edna St. Vincent Millay

7. This complex is currently occupied by the Dewan Filharmonik and a state oil corporation. It overlooks the planned site for the mile-long cylindrical Gigaworld building on the Klang River. Based on an eight-pointed star and incorporating traditional Muslim patterns, this Cesar Pelli creation includes a bridge 600 feet above the ground. FTP, name these two buildings in Kuala Lumpur which are, at 1483 feet, the world's tallest.

ANSWER: the Petronas towers

8. Taking place over a six-month period and told by three shifting narrators, it is set in the fictional west African state of Kanga. As it ends, Beatrice Okah's friends take charge of righting the country after the military president is overthrown. The toppling was sparked by the murder of the Minister of Information, Chris Oriko, and newspaper editor Iken Osodi, former friends of the deposed Sam. FTP, name this 1987 novel by Chinua Achebe.

ANSWER: Anthills of the Savannah

9. They opened 2001 with a 79-74 victory at Georgia Tech and proceeded to a 23-6 regular season record. Three of their freshman are from abroad, including Conor Tolan from Ireland, Jan Fikiel from Germany, and their high scorer, from London. High scorers Andy Toole, Ugonna Onyekwe, and Koko Archibong led them to victory in a conference tiebreaker game. FTP, name this team which entered the 2002 NCAA tournament as the eleventh seed in the South region and lost in the first round to California.

ANSWER: University of Pennsylvania

10. In this year's Presidential election, New Hampshire's George Plummer cast a faithless electoral vote. An aging John Adams crossed party lines to cast an electoral vote, not for son John Quincy Adams, who received Plummer's, but for the incumbent Democratic-Republican. Plummer's decision was out of enmity for that man, not because of respect for George Washington. FTP, name this year in which the electoral vote count was 231 to 1 for the ticket of Daniel D. Tompkins and James Monroe.

ANSWER: 1820

11. Depicted alongside Bat on the Palette of Narmer, one of this god's monthly periods of blindness resulted in the temporary beheading of the entire pantheon. His sons Imset, Hapi, Duamutef, and Kebechsenef, protect the jars in which organs are kept after mummification. Pharaohs considered themselves the living form of this god, who patronized legitimate rulers, a role which also caused him to avenge the murder of Osiris by killing Seth. FTP, name this benevolent, falcon-headed god of the sky and light.

ANSWER: Horus [or Hwr; or Hr; or Harseisis; or Heru-ur; or Mekhenty-er-irty; or Khenty-irty; or Harseisis; or Behdety; or Anhur; or Harpokrates]

12. Created in 1975 by Steve Johnson, it takes a modified Backus-Naur form of a LALR grammar and creates a table driven parser which matches input tokens to rules. As the tokens are matched, expressions can be evaluated or an intermediate language can be constructed, allowing for the generation of interpreters and compiler front ends. FTP, name this standard UNIX programming utility, which lives up to its claim of being "yet another compiler compiler."

ANSWER: YACC [accept Yet Another Compiler Compiler before it is mentioned]

13. He was brought before the Inquisition in 1573 for his *Last Supper*, which included, in the words of the inquisitor, "buffoons, drunkards, Germans, dwarves, and similar vulgarities." He escaped punishment by changing the title of the painting to *Feast in the House of Levi*. He also decorated the Villa Barbaro and painted the ceiling of the Hall of the Great Council in the Doge's Palace. FTP, name this creator of *Triumph of Venice* and *Marriage at Cana*.

ANSWER: Paolo Veronese [or Paolo Caliari]

14. It was the first protein to have its structure determined, which was done in 1960 by John Kendrew. Consisting of two long alpha-helices with random-coil arrangements at bending points, its compact structure isolates the ligand from contact oxidation. It relies on a single atom's Fe+2 oxidation state and is more strongly attractive to oxygen than hemoglobin is, leading to oxygen transfer from blood to muscle. FTP name this molecule comprised of a heme and a globin, responsible for the red color of meat.

ANSWER: myoglobin

15. It dwells on sexual freedom, promising that the punishments of Sodom and Gomorrah will be renewed. In general, this book recommends a return to the faith of the time of Jesus, citing the apocalyptic predictions of the Book of Enoch. An epistle in twenty-five verses, it is attributed to a brother of James who does not appear elsewhere. FTP, name this book, second to last in the Catholic Bible.

ANSWER: Letter of Jude [accept Book of Jude; accept Epistle of Jude]

16. He delivers a speech to rouse the dejected Arcadians, then he kills Rhoetus and prays to the Tiber for aid in killing Halaesus. He then sees a particular foe coming at him "as a lion at a bull." He invokes Hercules Alcide for protection but is denied and killed. Later, the sight of his baldric infuriates a warrior into taking revenge upon his killer. FTP, name this son of Evander who is slain by Turnus in Book X of the *Aeneid*.

ANSWER: Pallas

17. At low output levels, this curve fits the Keynesian predictions; namely, it is horizontal because unused resources can be tapped in order to increase production without an effect on price. As output increases, it moves towards the monetarist predictions, because an increase in demand can only increase price once all resources are employed. FTP, name this measure of all available commodities in the economy.

ANSWER: aggregate supply [prompt on supply]

18. It often occurs in a new or little-used magnetrons and is thwarted by "baking in." Its namesake "time" is the interval between the severance of a fuse and the failure of a circuit. FTP, name this type of visible current discharge which occurs when a strong current jumps a gap between electrodes, such as between aluminum foil and the wall of a microwave oven.

ANSWER: arcing

19. As it opens, a legend of Saluco warns that greedy gringos tend to disappear. Martin Decoud drowns after being stranded on an island following a boat collision. The title character eventually romances Theresa Viola's daughters after helping Decoud and Monygham in an attempt to save Holroyd and Gould's silver mine from Sotillo after the overthrow of Ribiera. FTP, name this novel set in Costaguana, by Joseph Conrad.

ANSWER: Nostromo

20. Honored with a column of red granite on the Campus Martius, he instituted a fundraising program for orphaned girls in memory of his dead wife. The aftermath of a peasant revolt in Egypt was one of nine times when he fed Rome out of his own pocket. He modeled his reign on that of Numa Pompilius and was described as the model person in the writings of his co-consul, adopted son, and successor Marcus Aurelius. FTP, name this emperor from 138 to 161, the son of Hadrian.

ANSWER: Tiberius Aurelius Fulvus Boionius Arrius Antoninus Pius

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PACKET A BONI

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

- The introducer of Palladio's style, movable scenery, and the proscenium arch to England, his works include the Queen's House at Greenwich.

ANSWER: Inigo **Jones**

- Rubens painted the ceilings of this part of Whitehall Palace, where monarchs received meals and viewed plays. Jones designed it for James I.

ANSWER: **Banqueting** House

- Jones designed this London square on Bow Street, the location of the Royal Opera House.

ANSWER: **Covent Garden**

2. Identify these forms of carbon for 10 points each.

- With no dangling bonds and formula C₆₀, it looks like a soccer ball.

ANSWER: **buckminsterfullerene** [or **buckyballs**]

- The only other fullerene of significance, this spheroid has the formula C₇₀.

ANSWER: **falmerene**

- Discovered in meteors and shock-induced rock, one resembles microscopic diamonds that retain graphite's hexagonal structure, while the other consists of soft lamellae that alternate with graphite. Name either form.

ANSWER: **lonsdaleite** or **chaoite**

3. Answer the following about 2002 goings-on at the U.S. Supreme Court for 10 points each.

- The Court declined to hear an appeal of *Kenneth Curtis v. South Carolina*, in which Curtis's company, Privacy Protection Services, sued to overturn a law preventing the sale of this substance.

ANSWER: human **urine**

- The Court heard arguments in *Adams v. Florida Power Corporation*, which will determine whether "disproportionate impact" suits commonly used in racial discrimination claims may be filed for this other kind of legally recognized discrimination.

ANSWER: **age** discrimination [or obvious equivalents]

- The Court suspended this lawyer from the Supreme Court bar after he was disbarred in Florida for embezzling from a jailed client's stock holdings.

ANSWER: F. Lee **Bailey**

4. Answer the following about the beginning of the Mexican independence movement for 10 points per part.

- After pronouncing for independence at Dolores in 1810, this priest led the capture of Guanajuato and Guadalajara before he was captured and killed by Spanish forces.

ANSWER: Miguel **Hidalgo** y Costilla

- Hidalgo's "cry of Dolores" occurred on this month and date, now celebrated as Mexico's Independence Day.

ANSWER: **September 16**

•After Hidalgo's death, this other priest took over the movement. In 1813, he convened the Congress of Chilpancingo to issue a formal declaration of independence.

ANSWER: José María Morelos y Pavón

5. Answer the following about Martin Luther King Jr. for 15 points per part.

•King wrote in this April 1963 document that "Freedom is never voluntarily given by the oppressor; it must be demanded by the oppressed."

ANSWER: "Letter from a Birmingham Jail"

•King was imprisoned during protest marches in Birmingham by this militant Public Safety Commissioner, who issued the order to use dogs and firehoses against the march.

ANSWER: Theophilus Eugene "Bull" Connor

6. Answer the following about a Chinese dynasty for 10 points per part.

•Ruling from 1368 to 1644, this dynasty expelled the Mongols and annexed Annam.

ANSWER: Ming

•The Ming dynasty was founded by this onetime peasant and monk fourteen years after his involvement in the Red Turban uprising.

ANSWER: Zhu Yuanzhang [accept Hongwu emperor]

•A recent poorly researched paper by Gavin Menzies claims that this man discovered the Americas in 1420. The fact that he didn't shouldn't detract from his real accomplishments as naval commander under Yonglo, which included making trade contact with thirty-five countries and exploring coasts in Africa and the Persian Gulf.

ANSWER: Zheng He

7. Answer the following a novel for 15 points per part.

•Over twelve hours on the Day of the Dead, Geoffrey Fermin, an alcoholic British official, attempts to reconcile with his wife Yvonne, and Hugh investigates fascist activity in Mexico, in this allegory for World War II.

ANSWER: Under the Volcano

•The author of *Under the Volcano*, he also wrote *Ulamarine* and *In Ballast to the White Sea* but never achieved a second success due to his own alcoholism.

ANSWER: Clarence Malcolm Lowry

8. Note these options: ortho, para, and meta. Given a substituted benzene ring, state all applicable positions to which the ring directs with regards to further substitution reactions, for 10 points per part.

•phenol

ANSWER: ortho and para

•benzoic acid

ANSWER: meta

•1,4 dibromobenzene

ANSWER: ortho

9. Name these authors of books about wandering for 10 points each.

•He wrote "Leixlip Castle" and *Bertram*, but is likely better known for the novel *Melmoth the Wanderer* and for being Oscar Wilde's great-uncle.

ANSWER: Charles Robert Maturin

•*The Wanderer* or *Le grand meaulnes* was the only novel he wrote before dying in World War I.

ANSWER: Alain-Fournier [or Henri-Alban Fournier]

•His novel *A Wanderer Plays On Muted Strings* was written after *Hunger* but before *Growth of the Soil*.

ANSWER: Knut Hamsen [or Knut Pedersen]

10. Given a character, name the person who portrays that character on *NYPD Blue* for 10 points each.

•Lieutenant Rodriguez

ANSWER: Esai Morales

•John Irvin

ANSWER: Bill Brochtrup

•John Clark, Jr.

ANSWER: Mark-Paul Gosselaar

11. Answer the following about an English king for 10 points per part.

•The nephew of Henry I, he betrayed a pledge to support Matilda and ruled a disintegrating England from 1135 to 1153, when he conceded the succession to Henry II.

ANSWER: Stephen

•Stephen was the only king from this house, named for the city on the Loire where his family ruled as counts.

ANSWER: Blois

•Stephen's forces defeated David I of Scotland at Northallerton in this 1138 battle for the integrity of the Northumbrian border at which enormous emblems of saints were used for psychological intimidation.

ANSWER: Battle of the Standard

12. For 10 points each, identify these statistical distributions.

•It is used to estimate the confidence with which a given distribution of events was generated by random.

ANSWER: chi-squared

•Related to the beta distribution, it arises naturally in processes for which the waiting times between Poisson distributed events are relevant.

ANSWER: gamma

•It is the distribution of the random variable t in the "best" possible way without knowing sigma.

ANSWER: student's distribution

13. Name these Beethoven sonatas for 10 points each.

•Opus 57 in F minor, it opens with an arpeggiation representing an approaching storm, then introduces a short theme as a bolt of lightning. It continues recalling the theme through the final movement in *allegro ma non troppo* and *presto*.

ANSWER: Appassionata [or Sonata 23 in F minor]

•It is called by the vernacular words for "dawn" in continental Europe, but English-speaking countries use the dedication to Count Ferdinand. Its *adagio* movement replaced the originally considered slower portion, which was reworked into the *Andante favori*. Its final rondo was composed to make use of an extra-range Erard piano.

ANSWER: Waldstein [or Sonata 21 in C major]

•It acquired its common name when Heinrich Rallstab compared its first movement to a night on Lake Lucerne. Rallstab's an idiot, because that movement is actually modeled on a funeral march.

ANSWER: Moonlight [or Sonata 14 in C sharp minor]

14. For 10 points each, name these carnivorous plants from their methods of capture.

- The insect lands and initiates an electrical impulse that closes the two modified leaves.

ANSWER: venus flytrap [or dionaea muscipula]

- This common name applies to members of *sarracenia*, *nepenthes*, and *darlingtonia*. In all of them, the insect drowns in a long funnel containing water and digestive enzymes.

ANSWER: pitcher plant

- In this plant from genus *Drosera*, sticky secretions on the tips of hairs trap the insect. The hairs bend and restrain the insect, as the leaf cups around the insect. The hairs then secrete digestive enzymes.

ANSWER: sundew

15. Name these U.S. Supreme Court cases which involved women's rights for 10 points each.

- This 1875 decision written by Justice Waite stated that the Fourteenth Amendment did not guarantee a right to vote for women.

ANSWER: Minor v. Happersett

- "The two sexes differ in structure of body, in the functions to be performed by each, in the amount of physical strength, in the capacity for long-continued labor..." wrote Justice Brewer in this 1908 case allowing state caps on working hours for women.

ANSWER: Muller v. Oregon

- Decided alongside *Roe v. Wade*, this case addressed a Georgia statute which permitted abortions only when a doctor's "best clinical judgment" saw a risk to the mother's health.

ANSWER: Doe v. Bolton

16. Name these works of James Joyce for 10 points apiece.

- It follows one night of insomnia in the lives of Anna Livia Plurabelle, Humphrey Chimpden Earwicker, and their children.

ANSWER: Finnegans Wake

- The opening story from *Dubliners*, it follows reaction to the death of Father Flynn by the narrator, Cotter, and Eliza.

ANSWER: "The Sisters"

- Joyce's first book, this collection of poems includes "I hear an army charging upon the land" and "From dewy dreams, my soul, arise." Joyce claimed that the title was inspired by the sound of a prostitute urinating.

ANSWER: Chamber Music

17. Name these criminologists for 10 points each.

- He founded the classical school of criminology with his 1764 tract against torture and the death penalty, *On Crimes and Punishments*.

ANSWER: Cesare Bonesana, Marchese di Beccaria

- The founder of the positivist school, he supported the atavist idea of searching for crime-linked physical characteristics in children in his 1876 *Criminal Man*.

ANSWER: Cesare Lombroso

- This creator of the differential association theory, this professor at Chicago and Indiana wrote *The Professional Thief* with Broadway Jones and the 1934 *Principles of Criminology*. He coined the phrase "white-collar crime."

ANSWER: Edwin H. Sutherland

18. Name these Beat-related works for 10 points each.

•Often considered proto-Beat is this 1949 Paul Bowles novel which follows Paul, Kit, and Turner on a sojourn in Morocco.

ANSWER: The *Sheltering Sky*

•Lawrence Ferlinghetti writes "The pennycandystore beyond the El/ is where I first/fell in love/with unreality," in this 1958 collection of poems sometimes called the Beat manifesto.

ANSWER: A *Coney Island of the Mind*

•In this Jack Kerouac novel, Jaffe Ryder narrates Ray Smith's discovery of "millions of young Americans wandering around refusing to subscribe to the general demand that they consume."

ANSWER: The *Dharma Bums*

19. Given landmarks, name the city in the state of Washington for 10 points each.

•Gonzaga University, Riverside State Park, the Northwest Museum of Arts and Culture

ANSWER: Spokane

•The Washington Center for the Performing Arts, Sylvester Park, the Biglow House

ANSWER: Olympia

•Galloping Gertie, the University of Puget Sound, Fort Defiance Park

ANSWER: Tacoma

20. Name these Kant works for 10 points each.

•It is divided into the "Doctrine of Right," on social politics, and the "Doctrine of Virtue." The unifying theme discusses the "faculty of desire," which applies morality to advance a person either in political rights or individual virtue.

ANSWER: *Groundwork of the* *Metaphysics of Morals* [or *Grundlegung Zur* *Metaphysik Der Sitten*]

•This work on art finds no inherent aesthetic value in objects. Chapters include "Analytic of the sublime" and "On the methodology of taste."

ANSWER: *Critique of the Power of Judgment* [or *Kritik Der Urteilskraft*]

•It makes a distinction between analytic and synthetic judgments, discussing that which can be deduced from *a priori* statements alone. It includes the "Transcendental Doctrine Of The Elements" and the "Analytic of Principles."

ANSWER: *Critique of Pure Reason* [or *Kritik Der Reinen Vernunft*]