

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, Jen Sydeski, and Matt Weiner

PACKET I TOSSUPS

1. In this complementary sequence, hydrogen bonds to the 16S rRNA in the 30S subunit to promote initiation of translation. The start codon is usually four to six nucleotides downstream. FTP, name this sequence in bacterial mRNA which functions as a ribosomal binding site.

ANSWER: Shine-Delgarno sequence

2. In the 1980s, it expanded its purview to take on cases involving women in the military, sterilization of welfare recipients, brown lung disease, and the death penalty. Founded by Morris Dees and Joe Levin in 1971, it has achieved several settlements for KKK violence through its Klanwatch department. FTP, name this Montgomery-based organization which litigates civil rights cases for free.

ANSWER: Southern Poverty Law Center

3. He ended the sultanate of Delhi and conquered Kandahar. His brothers Kamran, Hindal and Askari coveted his throne, as did Bhadur Shah of Gujarat, but the Sultan of Bengal, Sher Shah, was the one who defeated him at Chausa and Kannauj, causing him to flee to Sind for fifteen years. Just a year after recapturing India from Sher, he tripped on the stairs in his library while praying and died. FTP, name this profoundly unlucky Moghul emperor of India, the son of Babur and father of Akbar.

ANSWER: Humayun [or Nasiruddin Muhammad; prompt on Muhammad]

4. Made of cornel bark, it was created after the Telmissian prophets advised a farmer who had seen an eagle land on a plough to ride to the temple of Zeus. It was constructed around a hestor, and an alternate account of its destruction says that it simply fell apart when the hestor was removed. FTP, name this Phrygian topological entity, more traditionally solved when Alexander the Great sliced through it with a sword.

ANSWER: Gordian knot

5. The title place is staffed by the student Zoya, the technician Vera Gangart, and their boss Lyudmila Dontsova. Two of the few who leave it alive are Pavel Rusanov, a Party member, and Oleg Kostoglotov, a political prisoner who is not permitted to leave the province. Oleg eventually chooses to enter his labor sentence early in order to avoid a treatment that causes impotence. FTP, name this novel by Alexander Solzhenitsyn

ANSWER: *The* Cancer Ward [or Rakovy korpus]

6. His early works included the St. Francis altarpiece and the abbess's room in the Sao Paolo convent. He painted the *Assumption of the Virgin* in the Parma Cathedral and the *Vision of Saint John the Evangelist* in the church of the same name. FTP, name this painter of *Io*, *Danae*, and other works in the mythological *Loves of Jupiter* series.

ANSWER: Correggio [or Antonio Allegri]

7. Created by reversing actual customer confusion towards the company in question, we know that he wears a shower cap, enjoys toast, and can lick his own eye. Frustrated

with phone book confusion, he repeatedly asks the person on the other end of the line to stop calling him. FTP, name this British-accented lizard who absolutely cannot save you money on car insurance.

ANSWER: the gecko

8. Spain received Parma, Piacenza, and Guastalla, while Sardinia received the Upper Novara and part of Milan, Britain took control of Madras, and France gained Louisbourg. Francis I was recognized as Holy Roman Emperor, and Prussia's annexation of Silesia was legitimized. FTP, name this 1748 agreement which also recognized the Pragmatic Sanction and Maria Theresa's rule, ending the War of the Austrian Succession.

ANSWER: Peace of Aix-La-Chapelle [or Peace of Aachen]

9. When Donald Knuth received samples of the typesetting for the second edition of *The Art of Computer Programming*, quality issues led him to look for a system with a higher, more consistent quality of typesetting for mathematical expressions and technical papers. Knuth then created this early markup language. FTP, name this language, named for the first three Greek letters in the word *technos*.

ANSWER: TeX

10. The valleys of this mountain range, the Swat and Dir districts, as well as parts of Chitral, support rice cultivation. The Karambar Pass between the valleys of the Konar and Gilgit rivers may be tentatively accepted as marking its eastern boundary. The western portion is also known as the Baba Mountains, which gradually descends from Shebar Pass to the Kermu Pass. FTP, name this mountain range that reaches its greatest height at Mount Tirich Mir on the Pakistan-Afghanistan border.

ANSWER: Hindu Kush

11. Its author considered it the most important of his works, but many modern readers agree with George Washington Peck, who reviewed it in 1852 as "A bad book! Affected in dialect, unnatural in conception, repulsive in plot, and inartistic in construction." It ends with the death of Mrs. Glendinning, who wills her estate to Glen Stanly. The title character moves in with Delly Ulver and pretends to marry his half-sister Isabel after breaking his engagement to Lucy Tartan. FTP, name this novel by Herman Melville.

ANSWER: Pierre, or the Ambiguities

12. He lives in the garden Dilmun, across an ocean accessible by Urshanabi's boat. After he tells his story, the listener falls asleep, so his wife bakes loaves of bread to mark the time. The story ends with him on Mount Nisir and begins with him in Shurruk, where Ea warns him of an upcoming catastrophe, at which point he builds an ark, brings two of every animal aboard, and releases doves to check for land. FTP, name this survivor of the great flood who is sought by the title character in the *Epic of Gilgamesh*.

ANSWER: Utnapishtim [or Ziusudra]

13. His novel *Cécile* was discovered over a century after his death. Although exiled when Napoleon first came to power, he served under Napoleon's final administration and under Charles X as an advocate of liberalism through constitutional monarchy. He described his philosophy of politics in *On the Sovereignty of the People, Principles and Politics* and *Of the Spirit of Conquest and Usurpation*. FTP, name this man who wrote of his affair with Madame de Staël in *Adolphe*.

ANSWER: Henri Benjamin Constant de Rebecque

14. John Hicks applied them to his theory of demand, as did Eugen Slutsky to a lesser extent. They assume that preferences are complete and transitive and that greater quantities of goods produce greater satiation. Points on the graph represent different bundles of goods. They are drawn downward from left to right and are usually convex to the origin. The idea is that a consumer would not prefer any combination of goods along them for another other combination. FTP, identify these functions used to analyze consumer preference, developed by Francis Edgeworth and Vilfredo Pareto.

ANSWER: indifference curves

15. Einstein explained this quantity at low temperature, which Debye incorporated into a general formula. Both scientists' equations reduce at high temperatures to the Law of Dulong and Petit, which states that this quantity is equal to $3R$ for all monatomic solids. FTP, name this quantity which can be expressed as the partial derivative of the internal energy with regards to temperature at constant volume.

ANSWER: heat capacity

16. A one-time army commander and secretary of war in the Republic of Texas, he joined the U.S. Army and became a brigadier general in 1857 after leading a force against Mormons in Utah. At the start of the Civil War, he was second-in-command to Lee, in charge of the defensive line through Kentucky which held until February 1862, but on April 6, 1862 he was shot in the femoral artery while charging through a peach orchard. FTP, name this man who thus lost the Battle of Shiloh and his life.

ANSWER: Albert Sydney Johnston

17. A polymer of one of these was the first conducting organic polymer ever made. They have a characteristic IR band between 2100-2260. Dissolving-metal reduction produces trans products. The Lindlar catalyst produces cis products. The simplest of these molecules is used in a high-temperature reaction with water and carbon monoxide to produce acrylic acid, and also in simple additions to produce vinyl chloride and acetonitrile. FTP, name these compounds contained in propargyl groups, the simplest of which is acetylene, defined as containing carbon-carbon triple bonds.

ANSWER: alkynes

18. He defended his beliefs from the attacks of al-Ghazali in *Incoherence of the Incoherence*. Another work by this student of Avempace is *On the Harmony of Religion and Philosophy*. He was exiled from Spain in 1195 for arguing the preeminence of reason over faith, just twenty-five years before Michael Scot's Latin translation of his works. FTP, name this author of commentaries on Aristotle and Plato which sparked the medieval revival of Greek scholarship.

ANSWER: Averroës [or Abu al-Walid Muhammad ibn Ahmad ibn Muhammad ibn Rushd]

19. Anyone who held this office could be appointed to fill a vacant Senate seat by the censor, until the time of Sulla, who added a minimum age of thirty but provided for automatic Senate membership. Twenty people elected by the Assembly of the Tribes occupied this office at any one time, and they were responsible for public documents and the finances of the republic. FTP, name this lowest office of the *cursus honorum*.

ANSWER: quaestor

20. His dissertation on the nature of space was rejected as too grounded in philosophy by the physicist Max Wien and too grounded in physics by the philosopher Bruno Bauch.

He wrote extensively on the language used in science, such as in *The Logical Syntax of Language*. Similarly to Wittgenstein, he believed that philosophical problems are actually problems of communication. FTP, name this positivist, a leader of the Vienna Circle who wrote *The Logical Structure of the World*.

ANSWER: Rudolf Carnap

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PACKET I BONI

1. Name these Aristophanes plays for 10 points each.

- Strepsiadestries attempts to learn how to outwit his creditors from Socrates, cast as a sophist, but after his son Phidippides learns how to justify beating him, he burns down Socrates's *Phrontisterion*.

ANSWER: "The Clouds" [or "Nephelai"]

- Trygaeus rides an enormous dung beetle to Olympus and rescues the title goddess.

ANSWER: "Peace" [or "Eirene"]

- Fed up with the Peloponnesian War, Dicaeopolis, who lives outside of the walls of Athens and thus bears the brunt of the fighting, makes his own peace with Sparta.

ANSWER: "The Acharnians"

2. Name these anarchists for 10 points each.

- Becoming interested in anarchism after reading political texts to pass the time on cartographic expeditions, he advocated a cooperative society in such pamphlets as *Mutual Aid* and *Fields, Factories, and Workshops*.

ANSWER: Prince Pyotr Alekseyevich Kropotkin

- Once an officer in the Russian Imperial Guard, this author of *God and the State*, founder of the Social Democratic Alliance, and leader of Russian populism through the Land and Liberty society was expelled from the First International for preferring pure anarchism to communism.

ANSWER: Mikhail Aleksandrovich Bakunin

- One of the chief philosophers of syndicalism, this engineer's *Reflections on Violence* discusses the concept of the "social myth," such as a scapegoat group or a utopian society, that can be used to motivate mass revolution.

ANSWER: Georges Sorel

3. Name the seventeenth-century English authors from works for 10 points each.

- "The Maid of Honor," "The City Madam," and "A New Way to Pay Old Debts"

ANSWER: Philip Massinger

- "The Dutch Courtezan," "The Malcontent," and "The Scourge of Villanie"

ANSWER: John Marston

- "The Rover," "Sir Patient Fancy," and the novel *Oroonoko*

ANSWER: Aphra Behn

4. Answer the following about a novel for 10 points per part.

- This novel follows Wanda and Holly Faye Lovell. The latter wins a scholarship to the Haverly School of Music, but her rural mannerisms become the target of scorn.

ANSWER: A Mother's Gift

- One of the two authors of *A Mother's Gift* is this Kentwood, Louisiana native and new spokesimplant for Pepsi.

ANSWER: Britney Spears

- The other author is this woman, Britney's mother.

ANSWER: Lynne Spears [prompt on Spears]

5. Name these things from stellar evolution for fifteen points each.

- This is the mass of an interstellar gas cloud at which it will begin to collapse due to the gravitational attraction of the particles.

ANSWER: Jeans mass

- In low mass stars, this is the sudden ignition of the core.

ANSWER: helium flash

6. Answer the following about the Hittites for 10 points each.

- In 1680 BCE, the Old Hittite Kingdom was founded at Hattusa by this ruler.

ANSWER: Labarna [or Labernash; or Tabarna]

- In 1299 BCE, Muwatallis led the Hittites against Ramses II and the Egyptians in an indecisive battle at this site on the Orontes River in Syria.

ANSWER: Battle of Kadesh

- Egypt and the Hittites had earlier skirmished in a brief conflict caused by the assassination of Zannanza, son of this founder of the New Hittite Kingdom, who encouraged revolts against Akhenaton and seized Egyptian and Mittani holdings.

ANSWER: Suppiluliumas

7. Name these Truman Capote works for 10 points each.

- Joel Knox goes to visit his father at Skully's Landing. He meets the 103-year-old Jesus Fever, the mysterious Randolph, and his stepmother Miss Amy.

ANSWER: Other Voices, Other Rooms

- Based on research conducted with Harper Lee on an actual crime in Holcomb, Kansas, this work launched the genres of "New Journalism" and "nonfiction novel."

ANSWER: In Cold Blood: A True Account of a Multiple Murder and Its Consequences

- After traveling through the USSR with a production of *Porgy and Bess*, Capote wrote this negative account of the experience.

ANSWER: The Muses Are Heard

8. Answer the following about a recent Senate Judiciary Committee vote for 10 points each.

- On March 15, 2002, a 10-9 vote of the Committee stopped the nomination to the federal appellate court of this Mississippi judge.

ANSWER: Charles Pickering

- This New York Democrat was one of the chief opponents of Pickering on the Committee.

ANSWER: Charles Schumer

- Had Pickering been confirmed, he would have joined this circuit of the federal appeals court, which includes Mississippi, Louisiana, and Texas.

ANSWER: Fifth Circuit

9. Answer the following about a fishing rights crisis for 10 points each.

- In 1885, the U.S. Senate voided the articles concerning fishing in this 1871 treaty, which mainly addressed damages for wartime acts of British-built Confederate ships.

ANSWER: Treaty of Washington

- This 1888 treaty declared inlets more than six miles wide to be open waters, allowed U.S. ships to dock in Canada, and put forth incentives for the U.S. to eliminate tariffs on Canadian fish.

ANSWER: Bayard-Chamberlain Treaty

- The U.S. Senate refused to ratify the Bayard-Chamberlain treaty, instead proposing to annex this island, where the seizure of the American ship *David F. Adams* sparked the dispute.

ANSWER: Nova Scotia

10. Answer the following somewhat related questions about Canada for 10 points per part.

- In his 1839 report on the rebellion of two years prior, this man recommended that Upper and Lower Canada be joined.

ANSWER: Lord Durham [accept John George Lambton]

- Currently held by Adrienne Clarkson, this office formally began in 1867 with the appointment of Charles Stanley Monck.

ANSWER: Governor General

- The first native-born Canadian to serve as governor-general, he held the post from 1952 to 1959.

ANSWER: Charles Vincent Massey

11. Answer the following about the designer of the niche at Orsanmichele for a statue of St. Louis for 10 points each.

- This architect also designed the tomb of Pope John XXIII and the Palazzo Medici-Riccardi, and he rebuilt the Convent of San Marco for Cosimo de Medici.

Answer: Michelozzi Michelozzo

- It was this man who sculpted the statue of St. Louis for Orsanmichele as well as the St. Mark and St. George statues. He is also famous for *Gattamelata* and the bronze *David*.

ANSWER: Donato di Niccolo Donatello

- Michelozzo succeeded this man as supervisor of the building of the Florence Cathedral. He is known for his dome on that very building.

ANSWER: Filippo di Ser Brunellesco [accept Brunelleschi]

12. Name these related things for 10 points each.

- This is the state in which a substance loses all electrical resistance.

ANSWER: superconductivity

- Superconductivity was discovered in 1911 by Kamerling Onnes, who cooled this element to 4.2 degrees Kelvin.

ANSWER: mercury

- This effect was first observed in 1992 when scientists in Finland discovered that there was a small drop in the weights of objects placed above a spinning superconductive disc.

ANSWER: Podkletnov effect

13. Identify these related things for 10 points each.

- This is an infinite sequence in which each term is the sum of the previous two terms.

ANSWER: Fibonacci Sequence

- The fibonacci sequence has a correspondence with this number, which occurs in the graph of the sequence as well as the explicit version of the formula.

ANSWER: golden ratio

- This is the value of the golden ratio in radical terms.

ANSWER: (1+sqrt(5))/2

14. Name these related people and things for 15 points each.

•This publisher of the *American Agriculturist*, chairman of the Federal Farm Board, and eleven-year Secretary of the Treasury proposed in his book *Germany Is Our Problem* that Germany be converted to an agricultural economy to avoid future wars.

ANSWER: Henry Morgenthau, Jr.

•International relations theorist Hans Morgenthau is associated with this school, which was described in *Politics Among Nations* as believing "that politics, like society in general, is governed by objective laws that have their roots in human nature."

ANSWER: realism

15. Answer the following about a March 2002 bomb attack for 10 points per part.

•A mysterious individual named Artemio is now believed to lead this organization, after the 1992 capture of Abimael Guzman.

ANSWER: Sendero Luminoso [or Shining Path]

•U.S. officials believe that Sendero Luminoso is responsible for an embassy bombing in this country, their usual area of operation.

ANSWER: Republic of Peru [or *República del Perú*]

•The attack was intended to disrupt President Bush's upcoming summit with this Peruvian president.

ANSWER: Alejandro Toledo

16. For 10 points each, give these terms from genetics.

•The ability of a single gene to affect multiple characteristics.

ANSWER: pleiotropy

•A phenotypic situation in which both alleles are expressed in the heterozygote.

ANSWER: codominance

•Heritable traits that vary continuously as a result of environmental influences and the additive effect of two or more genes.

ANSWER: quantitative traits

17. Name these Graham Greene novels for 10 points each.

•Vacuum cleaner salesman Jim Wormale pretends to be spying on a communist government for Hawthorne in order to finance his daughter Milly.

ANSWER: Our Man In Havana

•Henry Scobie, a British policeman in Africa, borrows money from Yusef in order to send his wife Louise on a vacation, cheats on her with Helen, then dies.

ANSWER: The Heart of the Matter

•The "Whisky Priest," who has fathered the child Brigitta with Maria, is killed attempting to give last rites to the criminal Calvin.

ANSWER: The Power and the Glory

18. Name these related geographical things for 10 points each.

•It's the main tributary of the Columbia at 1,040 miles long.

ANSWER: Snake River

•The lower Snake River flows through this 1-mile deep gorge, the deepest river gorge in North America.

ANSWER: Hells Canyon

•In 1976 the upper Snake River Valley was badly flooded by the collapse of this dam.

ANSWER: Teton Dam

19. Name these books of the Apocrypha for 10 points each.

- The title Israelite is living in Nineveh. The archangel Raphael restores his sight and helps his son defeat the demon Asmodeus and marry Sarah in Media.

ANSWER: Tobit

- It follows the campaigns of of Holofernes against the Israelites, culminating in a battle at Bethulia. For some reason its says that Holofernes and Nebuchadnezzar were Assyrians.

ANSWER: Judith

- This book purports to be an invocation mentioned in Second Chronicles 33 and delivered by a long-reigning king of Judah, the son of Hezekiah.

ANSWER: Prayer of Manasseh

20. Answer these related music questions for 10 points each.

- They were first identified as a collective in Henri Collet's 1920 article comparing them to the Russian 5 and Erik Satie. Lesser known members included Louis Durey and Germaine Taillefer.

ANSWER: Les Six [or The Six]

- This member of Les Six composed oratorios like "Dance of the Dead" and "Summer Pastoral." He also developed successful choral works based on unusual themes like his *Pacific 231* and *Rugby*.

Answer: Arthur Honegger

- This man's works include a 1938 overture for orchestra and a ballet, *The Sailors*, but he's best known for film scores including *Rififi* and the 1952 version of *Moulin Rouge*.

ANSWER: Georges Auric