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**Ebowla 2001  
Carnegie Mellon University  
Packet #8**

**TOSSUPS**

1. Born with poor eyesight, he received only three years of formal schooling before working for the railroads. Disillusioned with politics after his experience in the Irish Citizen Army, he turned to writing. "Shadow of a Gunman" was his first play produced in the Abbey Theater, but "The Silver Tassie" was later rejected. For 10 points, name this playwright of "The Plough and the Stars" and "Juno and the Paycock."

Answer: Sean (or John) O'Casey

2. The provisions for redemption payments were repealed in 1905. It was the culmination of six years of committee work heavily influenced by Nikolay Milyutin. Actually 17 distinct laws, it specified a two year period of "temporary obligation." Formally called "Statutes Concerning Peasants Leaving Serf Dependence," for 10 points, identify this 1861 decree of Tsar Alexander II, not to be confused with a similar 1863 one by Abraham Lincoln.

Answer: Emancipation Acts, Manifesto, or Proclamation of 1861

3. They include Throth, Mist, Sigrun, Hild, Geironul, and Hervor, the "Warder of the Host." Glint from their armor create the Northern Lights, which appear as they go about their various errands, including escorting the Einherjar from battle and serving them mead. Beautiful maidens who ride winged horses, for 10 points, name these servants of Odin who choose the bravest of slain warriors.

Answer: Valkyries

4. Uncle Billy's ultimate fate is unknown, but he did not take any provisions with the stolen mules. An accordion and "The Innocent" Tom Stimson's rendition of the *Iliad* provide some measure of entertainment during the two snowed-in weeks, while Mother Shipton stores her rations so the eloping couple may live. For 10 points, name this Bret Harte story ending with the suicide of John Oakhurst.

Answer: The Outcasts of Poker Flat

5. Recently they have been used both as catalysts and to research the intermediates of some complex biochemical reactions. They are useful in detecting tumors and can be used to deliver certain drugs. First produced by Koehler and Milstein, they are made in hybridomas – the fusion of a myeloma and a normal B-cell. For 10 points, name these mass produced specific immunoglobulins.

Answer: monoclonal antibodies

6. The string parts were added later, as the commissioner of the piece wanted only a large wind section for the event. A rehearsal at Vauxhall was more successful than the title event, where the pavilion caught fire. It consists of an overture, bourree, two minuets, and two pieces "Peace" and "Rejoicing," which evoke the Peace of Aix-la-Chapelle. For 10 points, name this pyrotechnic Handel work.

Answer: Music for the Royal Fireworks (or Royal Fireworks Music)

7. The narrator is left without a friend after Evelyn Owen moves away. A subplot involves Honey, a young black man who wastes his talents. Much of the action takes place in a kitchen, with the narrator, her cousin John Henry, and the housekeeper Berenice playing cards. Frankie Addams' brother is to marry, and she desperately wants to go on the honeymoon with them in, for 10 points, this Carson McCullers work.

Answer: The Member of the Wedding

8. The pretense was a violation of Penal Code 211, Armed Robbery. Carried out over six days under the supervision of Philip Zimbardo, participants had all answered an ad offering \$15 a day for their services. The incarcerated men attempted to revolt, while the guards became sadistic, in for 10 points, this famous psychology research project at Stanford University.

Answer: Stanford Prison Experiment (accept equivalents)

9. Erroneously informed of a gap in the center defenses on the second day, General Rosencrans ordered it filled, accidentally creating a hole on the Union's right that Longstreet soon exploited. General George Thomas organized a defense on Horseshoe Ridge, covering the Federal withdrawal and earning him the moniker "The Rock of," for 10 points, this bloody battle on a creek near Chattanooga.

Answer: Battle of Chickamauga Creek or Station

10. He is rewarded with sausage and candy for guarding Caesar's package. Designated number S-854, he works with Kilgas on the windows and with Senka on the brick. He is made to mop the guardroom because he is late in waking up. Finding a sliver of metal, he considers himself lucky. For 10 points, name this gulag resident of an Alexander Solzhenitsyn novella.

Answer: Ivan Denisovich Shukov

11. Born in 1469 near Lahore, he was a member of the Khatri merchant caste, and so was able to undertake his journeys through the subcontinent. Stories of his early life and travels were collected as the Janam-Sakhis. Settling in Kartarpur, he taught that salvation comes through meditation on the divine name. For 10 points, name this man whose teachings were collected in the Adi Granth, the founder of Sikhism.

Answer: Guru Nanak

12. Lyophobic ones are more likely to experience flocculation. Particles vary in diameter from a micrometer to a nanometer, and the original definition was based on its inability to penetrate a dialysis membrane. The Tyndall Effect can be used to differentiate them from solutions. Consisting of a dispersed phase in some other medium, for 10 points, identify this chemical state of which sols, emulsions, and gels are examples.

Answer: colloid (prompt on sol, emulsion, gel, or aerosol)

13. Discovered in 1516 by Juan Diaz de Solis, it covers 13,500 square miles. It is 130 miles across at its widest point, and 20 miles across at its head. Receiving water from both the Parana and Uruguay rivers, both Montevideo and Buenos Aires are on its shores. For 10 points, name this large South American estuary.

Answer: Rio de la Plata

14. She spent some time in Portugal teaching English as a second language, and had brief stints as a secondary school French instructor. After graduating from the University of Exeter, she went to work for Amnesty International. She may have been influenced by Nancy Stouffer's "The Legend of Rah and Rah" For 10 points, name this author of the "Harry Potter" books.

Answer: Joanne Kathleen Rowling

15. Much as Gauss' Law is a generalized statement of Coulomb's Law, this is a basic simplification of the Biot-Savart Law. Though it does not require symmetry, most of its namesake "loops" are defined as circles. Appropriately, it is used to define standard currents. Formally stated in vector calculus terms by Maxwell, for 10 points, name this law which gives the magnetic field strength due to current.

Answer: Ampere's Law

16. He befriended Emile Zola in college, who later encouraged him to study painting. His early work uses heavy strokes and stark colors, but working with Pissarro lightened his style. Believing that color and geometry were crucial, he created many landscapes and still lifes, along with "The Card Players" and the "Bathers" series. For 10 points, name this Post-Impressionist painter of "House of the Suicide" and "Sea at L'Estaque."

Answer: Paul Cézanne

17. The title character is released from prison, allowing him to settle the score with the man who framed him. The villain sells drugs and shoots the hero's nephew, Jimmy. With his faithful madam Queen Bee and his cadre of kung-fu whores, the hero confronts his arch-nemesis, Willie Green, in an action-packed climax at The Total Experience nightclub. For 10 points, name this blaxploitation classic, starring Rudy Ray Moore as the titular protagonist.

Answer: Dolemite

18. Originally inhabited by Algonquin-speaking tribes, the first English settlers arrived in 1762 and founded Maudersville. They were soon joined by an influx of loyalists fleeing the American Revolution, who founded St. John and demanded the creation of a new province. Long relying on its timber industry, for 10 points, name this only officially bilingual province.

Answer: New Brunswick

19. In December 1959, Richard Feynman gave a talk entitled "There's Plenty of Room at the Bottom," predicting its future prominence. Detractors point to the "sticky fingers" and "fat fingers" problems of proposed assemblers at the atomic level. For 10 points, name this emerging science that may one day produce little self replicating robots.

Answer: nanotechnology

20. He spent the final 19 years of his life in Peruvian exile with his son Pedro. His first military actions went poorly, losing control of the Concepcion province, and he was forced to flee across the Andes. With San Martin, he organized an army to defeat the Spanish at Chacabuco, earning him national leadership. For 10 points, name this first leader of an independent Chile.

Answer: Bernardo O'Higgins

**BONI**

1. Passing polarized light through a substance may rotate the plane of the polarized light, indicating chirality. For 10 points each --

[10] This is the ability of a substance to rotate polarized light.

Answer: optical activity

[10] These are optically active molecules which are mirror images of each other.

Answer: enantiomers

[10] A molecule with two chiral centers that are mirror images of each other displays no optical activity and is known as this type of isomer.

Answer: meso-isomer

2. 30-20-10, name the person.

[30] A native of Takoma Park, Maryland, previous jobs included stints at 7-11, selling Time Life books, and managing the CBS studio gift shop.

[20] His namesake "Manifesto" spent several months on the New York Times bestseller list. In it, he answers a number of Sidney Blumenthal's charges.

[10] His online "report" was credited with breaking the Lewinsky scandal wide open.

Answer: Matt Drudge

3. Answer the following about "Tess of the D'Urbervilles" for the stated number of points.

[5] Name the novel's author.

Answer: Thomas Hardy

[5] Tess' husband, he leaves her after the disclosure that she had a child out of wedlock.

Answer: Angel Clare

[10] He rapes Tess, causing her pregnancy. Tess later lives with him in desperation.

Answer: Alec D'Urberville

[10] Tess gives her short-lived son this name.

Answer: Sorrow

4. 30-20-10, name the man.

[30] He was made Knight Commander of the Bath in 1867 for his services to the British Empire and Ontario.

[20] Accused of taking bribes in the Pacific Scandal, he resigned, but returned as prime minister in 1878.

[10] He was the first prime minister of the Dominion of Canada.

Answer: Alexander MacDonald

5. Identify the following works of Eurpides for 10 points each.

[10] Heracles rescues the title character from Death in this play, which ends with her reunion with King Admetus.

Answer: Alcestis

[10] The only extant satyr play, it deals with an episode from the Odyssey.

Answer: Cyclops

[10] Written shortly after the conquest of Melos, it deals with the fate of Hecuba, Cassandra, and Andromache after a similar, historical conquest.

Answer: The Trojan Women

6. Identify the following related organizations for 10 points each.

[10] Founded in 1869 by Philadelphia garment cutters, this was the first major American union.

Answer: Knights of Labor

[10] Motivated by a desire to associate by industry rather than craft, John L. Lewis and the United Mine Workers founded this group in 1935.

Answer: Committee for Industrial Organization (accept "Congress of Industrial Org.")

[10] This Cesar Chavez group was formed by the merger of the NFWA and AWOC in 1972.

Answer: United Farm Workers (of California)

7. Some 11,000 rebels were killed in the fighting from 1952 to 1957, and another 20,000 natives were sent to detention camps. For 10 points each, name –

[10] This violent movement that sought to evict the British from Kenya.

Answer: Mau Mau Revolt

[10] The native people whose "Central Association" comprised and sponsored most of the revolt.

Answer: Kikuyu

[10] The future first prime minister of Kenya, jailed as a Mau Mau leader in 1953.

Answer: Jomo Kenyatta or Kamau Ngengi

8. Identify the following terms from sculpture for 15 points each.

[15] This is a skeleton or framework that supports a figure being molded with a soft material.

Answer: armature

[15] Also called "cire-perdue," this method of hollow casting uses the namesake material to create a cavity for into which molten metal is poured.

Answer: lost-wax process

9. Identify the following about a heat engine for the stated number of points.

[10] The most efficient cycle possible, it is often used in power plants.

Answer: Carnot cycle

[20] The Carnot cycle consists of 4 distinct stages. Starting with adiabatic compression, name the other three steps for 5 points each, and a 5 point bonus for the correct order.

Answer: isothermal expansion  
adiabatic expansion (or constant heat expansion)  
isothermal compression

10. Answer the following about the legend of King Arthur's Round Table for 10 points each.

[10] The Round Table was supposedly given by this man to Arthur as part of Guinevere's dowry.

Answer: King Leodegan or Leodegraunce

[10] Leodegan received the Table from this man, for whom Merlin had built it.

Answer: Uther Pendragon

[10] This seat at the Round Table was reserved for the one who finds the Grail.

Answer: Siege Perilous

11. Identify the following related vector operations for 10 points each.

[10] Equal to the partial derivative with respect to variable multiplied by the unit vector for each variable, this basic operation is also called "del".

Answer: gradient (prompt on "del")

[10] Equal to the del operator dotted into a vector field, it gives the rate of change of the field when evaluated on some constant path.

Answer: divergance

[10] Also called "del-squared" this operation is the divergance of a gradient. It has important applications in heat and mass transport.

Answer: Laplacian

12. Answer the following about some presidential forays into literature for 10 points each.

[10] John F. Kennedy won the Pulitzer for this 1956 work.

Answer: Profiles in Courage

[10] Dwight Eisenhower wrote this lighthearted collection of tales after leaving the White House.

Answer: At Ease: Stories I Tell To Friends

[10] He published one poem, "Memory," which begins "My childhood's home I see again / And sadden with the view."

Answer: Abraham Lincoln

13. Answer the following about a particular article of the constitution for 10 points each.

[10] This article deals with the various rights and responsibilites of the various states.

Answer: Article IV

[10] Section 1 demands that each state extend this four-word phrase "to the public acts, records, and judicial proceedings of every other state."

Answer: full faith and credit

[10] Section 4 guarantees federal protection against invasion and that the governments of the various states shall be what?

Answer: a republic

14. Given pieces from an opera, name it for 15 points. If you need the composer, you will receive 10.

[15] "Cielo e mar," "Dance of the Hours," and "Suicidio"

[10] Amilcare Ponchielli

Answer: La Gioconda or The Ballad Singer

[15] "Dich, theure Hall" and "Pilgrims' Chorus"

[10] Richard Wagner

Answer: Tannhäuser

15. Identify the following members of the Constitutional Convention for the stated number of points.

[5] This Virginia delegate and Federalist was called "Father of the Constitution."

Answer: James Madison

[10] The New Jersey / small-state plan was proposed by this member of the convention.

Answer: William Patterson

[5] The Virginia Plan was the work of this man.

Answer: Edmund Randolph

[10] This was the only New York delegate to sign the Constitution.

Answer: Alexander Hamilton

16. It proceeds with eight 10-syllable lines and finishes with a ninth 12-foot line. The rhyme scheme is a-b-a-b-b-c-b-c-c. Answer the following about it for 10 points each.

[10] Identify this stanza which takes its name from its English creator.

Answer: Spenserian stanza

[10] The final line in iambic hexameter is known as this type of verse.

Answer: Alexandrine

[10] The Spenserian stanza was adapted from this Italian form of a-b-a-b-a-b-c-c.

Answer: ottava rima

17. Answer the following related questions for 10 points each.

[10] Tom Ridge was appointed to head this new cabinet-level office.

Answer: Director of Homeland Security

[10] This man became governor of Pennsylvania after Ridge's departure.

Answer: Mark Schweiker

[10] Currently Auditor General, he is the frontrunner for the Democratic nomination for governor in 2002, largely because of his late father.

Answer: Robert Casey, Jr.

18. 30-20-10, name the philosopher from works.

[30] "Contra Academicos"

[20] "On Free Will" and "On Christian Doctrine"

[10] "The City of God"

Answer: Augustine of Hippo

19. Given a list of four people mentioned in a pop music song, give the song title, for ten points each. If you need the artist who recorded it, you'll receive five points.

[10] Sally Ride, JFK, Castro, Syngman Rhee

[5] Billy Joel

Answer: We Didn't Start the Fire

[10] Lenny Bruce (twice), Lester Bangs, Leonid Brezhnev, Leonard Bernstein

[5] R.E.M.

Answer: It's the End of the World as We Know It (And I Feel Fine)

[10] Charlie Parker, Fred Astaire, Jean-Paul Sartre, Desmond Tutu

[5] The Beloved

Answer: Hello

20. No longer considered a phylum, it has been broken into three phyla – Crustacea, Uniramia, and Chelicerata. Answer the following questions about that for the stated number of points.

[5] First, for 5 points – what was that former phylum?

Answer: Arthropoda or arthropods

[10] For 10 points – the new phyla were assigned based on what body feature?

Answer: structure of appendages (prompt on "arm" or "leg")

[15] Now, for 5 points each – name any three of the five classes in phylum Uniramia.

Answer: Hexapoda or Insecta or insects

Diplopoda or millipedes

Chilopoda or centipedes

Symphyla or symphylans

Pauropoda or pauropods