

Ebowla 2001  
Carnegie Mellon University  
Packet #9

10/11/01

### TOSSUPS

1. The most common species is *Musa sapientum*, and the Gros Michel is its most common variety. Cooking varieties are known as plantains, and they generally emerge in groups of over 50. They naturally split into three pieces. A good source of vitamins A, B6, copper, and potassium, for 10 points, name this fruit, which is indeed both curved and yellow.

Answer: banana

2. Alaric II's defeat at Vouillé ended their claims on much of Gaul. Pushed across the Danube by the Huns, they defeated the Roman army at Adrianople, killing Emperor Valens. They then settled in the Balkans, but under Alaric the Great they later invaded Italy, sacking Rome in 410 AD. For 10 points, name this Germanic tribe that kept moving westward before settling in Spain.

Answer: Visigoths (Prompt on "Goths," do not accept "Ostrogoths")

3. After leaving the seminary, he was apprenticed in a tower-clock factory and, later, a bookstore. He would describe his disillusionment with schooling in "Under the Wheel," about a diligent student driven to self-destruction. Experience with psychoanalysis influenced "Demian," and later works contrasted spiritual and sensual life. For 10 points, name this German author of "Narcissus and Goldmund" and "Steppenwolf."

Answer: Herman Hesse

4. The first one was abandoned after the Senate added three amendments, although they were largely included in the second, final version. The major points of contention were over fortifications and wartime control, and both Britain and the US agreed to abrogate the Clayton-Bulworth Treaty. For 10 points, name this treaty which gave the US control of the future Panama Canal.

Answer: Hay-Pauncefote Treaty

5. Actually two principles in one, they are empirical definitions of finding low energy states. The first asserts that states with higher spins have lower energy, while the second deals with the effect of spin-orbit coupling on total quantum angular momentum. For 10 points, name this atomic principle that all orbitals must be occupied before pairing begins.

Answer: Hund's Rules

6. Unsurprisingly, he appears in the Platonic dialogue "Parmenides," as he was a disciple and staunch defender of Parmenides. Aristotle called him the father of the dialectic for his ability to draw opposite conclusions from his adversary's theses. Much of his work struggled with the concept of continuity and infinity. For 10 points, name this Greek philosopher, perhaps best known for his paradoxes.

Answer: Zeno of Elea

7. The narrator merely relates the description given to him by some traveller. A sonnet, its rhyme scheme is irregular, beginning a-b-a-b-a. The titular object is surrounded by a wasteland, and its face has apparently fallen off. An ironic commentary on the vanity of an ancient tyrant, for 10 points, name this poem by Percy Shelley about the ruins of a statue

Answer: Ozymandias

8. Derived only for fluid bodies, it is irrelevant to artificial satellites because of their generally small size. It contracts as the central body becomes denser, though it is about 2.46 for bodies of equal density. Possibly explaining planetary rings, for 10 points, name this distance inside which tidal forces threaten the integrity of an orbital body.

Answer: Roche limit

9. Great emphasis was put on the style and technique of this movement's works, particularly in poses and spatial relations, which were often artificial or contorted. Limbs are often elongated, as in Parmigiano's "Maddona of the Long Neck." Pioneered by Pontormo and Fiorentino, for 10 points, name this movement that was a reaction to High Renaissance classicism.

Answer: mannerism

10. Doctor Reefy uses his "paper pills" of wit to comfort his dying wife. Seth Richmond is a thinker who does not respond conventionally. Kate Swift is a teacher who tries to seduce George Willard, a reporter for the Eagle. The first section, "Book of the Grotesque" is a microcosm of this work's creation. For 10 points, name this work in which all these stories appear, a collection of 21 stories by Sherwood Anderson.

Answer: Winesburg, Ohio

11. The Supreme Court used this as a reason to strike down loyalty oaths for certain professions in *Cummings v. Missouri*. The prohibition does not necessarily extend to civil or administrative law, and it was suspended at Nuremberg to permit prosecutions for "waging aggressive war," something that had not been defined until the War Crimes Tribunal met. For 10 points, name this type of "retroactive" law specifically banned in the US.

Answer: ex post facto laws

12. The score stood 10-7 after a scoreless third quarter. Reggie Harrison's blocked punt for a safety set up a Roy Gerela field goal less than three minutes later, bringing the tally to 12-10. A three-and-out gave Dallas the chance to win the game, but Roger Staubach's final pass was picked off by Glen Edwards, sealing a Steelers victory. For 10 points, name this January 18, 1976 game in Miami.

Answer: Super Bowl X [Yes, I can reconstruct a game from a box score.]

13. It is, in one sense, an indication of structural integrity, as its maximum value for an object can be determined through applying pressure until breaking. Always perpendicular to the surface, it is a consequence of Newton's third law of motion. Multiplied by the coefficient of friction, it will give the frictional force on an object. For 10 points, name this "reaction force" from a surface that acts on an object resting on the surface.

Answer: normal force (accept early reaction force)

14. Its original plans called for it to be 12 feet high and 10 feet wide, though it eventually narrowed to 8. Superseded for two decades by one to the north, its fortlets were spaced 7 miles apart. Built and manned by the auxiliary legions, for 10 points, name this structure that runs from the River Tyne to the Solway Firth, separating Roman England from northern barbarians.

Answer: Hadrian's Wall

15. A proposal for state-run health insurance was part of his 1946 gubernatorial re-election campaign, which he won unopposed, having been nominated by both parties. He had previously served as Alameda County District Attorney and California's Attorney General, and was Thomas Dewey's running mate in 1948. For 10 points, name this man who became Chief Justice in 1953.

Answer: Earl Warren

16. The opposition Movement for Democratic Change has won some electoral victories in recent elections, winning 57 of 120 contested seats last year. Rural areas are firmly in the National Union-Patriotic Front camp, being the primary beneficiaries of the president's land reform policies. For 10 points, name this African nation led by Robert Mugabe.

Answer: Zimbabwe

17. The program centers around a young couple soon to be married – a new house is built, and neighbors and a preacher offer advice. Commissioned by the Coolidge Foundation for Martha Graham, it takes its name from a Hart Crane poem. Variations on the Shaker hymn "Simple Gifts" end the piece as the couple settle down in, for 10 points, this Copland ballet set in Pennsylvania.

Answer: Appalachian Spring

18. Jealous of his apprentice's talents, he threw Perdix from the Acropolis, earning him a banishment from Athens. Pursued by a former patron, he revealed himself by threading a spiral seashell with an ant. Creator of Pasiphae's wooden cow and the Labyrinth, for 10 points, name this mythical artisan who escaped Crete with his son Icarus by creating artificial wings.

Answer: Daedalus

19. The Chief Clerk suspects that he is missing work because he stole from the company. A travelling salesman, he provides his family's income. Grete cares for him initially, but later wishes he would go away. He is killed after an apple lodges in his back. For 10 points, name this man who awakes one morning as an insect, the protagonist of Kafka's "Metamorphosis."

Answer: Gregor Samsa (either acceptable)

20. It is the major element in tertiary motifs like the U-bend and Greek key. Antiparallel setups are more stable than parallel ones, as there are more hydrogen bonds available with fewer distortions. Often described as "pleated," for 10 points, name this type of secondary protein structure.

Answer: beta sheet

**BONI**

1. Answer the following about the geography of Colorado for 10 points each.

[10] At 14,433 feet, it is the highest mountain in the American Rockies.  
Answer: Mount Elbert

[10] Situated at the base of the Sangre de Cristo range, this national monument would seem better placed on a beach.  
Answer: Great Sand Dunes National Monument

[10] This conglomeration of multi-colored sandstone structures near Pikes Peak is a state park.  
Answer: Garden of the Gods

2. Two were posited in 1609; the third was stated in 1619. Most of the data used to formulate them was "taken" from Tycho Brahe. Answer the following about these laws of motion for 10 points each.

[10] Name these laws that govern planetary orbits.  
Answer: Kepler's Laws of Planetary Motion

[10] According to Kepler's 2<sup>nd</sup> Law, the line from a planet to the sun must sweep out what?  
Answer: equal area in equal time (accept equivalents)

[10] According to the Kepler's 3<sup>rd</sup> Law, the sidereal period of a planet squared must be equal to what?  
Answer: distance from sun cubed

3. Given the composer and symphony, provide the common name for the work for 5 points each, with a bonus for all 5.

[5] Mendelssohn's Fourth  
Answer: Italian

[5] Haydn's 101<sup>st</sup>  
Answer: The Clock

[5] Dvorak's Ninth  
Answer: From the New World

[5] Shostakovich's Seventh  
Answer: Leningrad

[5] Beethoven's Third  
Answer: Eroica

[5] Mozart's 41<sup>st</sup>  
Answer: Jupiter

4. Identify the following "first" women in American politics for 10 points each.

[10] The first woman to serve in the Cabinet, she was FDR's Secretary of Labor.  
Answer: Frances Perkins

[10] She was the first woman to run for the US presidency.

Answer: Victoria Woodhull

[10] This Texan was the only African-American and the only woman to give the keynote speech at the Democratic National Convention.

Answer: Barbara Charline Jordan

5. Name the following characters from "Les Miserables" for the stated number of points.

[5] This inspector pursues Jean Valjean through most of the novel.

Answer: Javert

[5] She is the mother of Cosette who dies upon Jean Valjean's arrest at her bedside.

Answer: Fantine

[10] This street urchin's actions and death at the barricade may have inspired a figure in Delacroix's "Liberty Leading the People."

Answer: Gavroche Thenardier

[10] This kindly bishop takes Valjean in and makes a "gift" of the silverware.

Answer: Monseigneur Charles Francois-Bienvenu Myriel or Mr. Bienvenu

6. Answer the following about Irish history for 10 points each.

[10] The Anglo-Irish Treaty of 1921 granted the 26 counties equal constitutional status as a dominion, which was known by this name.

Answer: Irish Free State

[10] First chairman of the provisional government, he was formerly the IRA's intelligence director.

Answer: Michael Collins

[10] The head of Fianna Fail, as prime minister he declared Eire a sovereign state in 1937.

Answer: Eamon (Edward) de Valera

7. Identify the following possibly related works for 10 points each.

[10] Julian West, a 19<sup>th</sup> century Bostonian, awakes in 2000 in this Edward Bellamy work.

Answer: Looking Backward

[10] Alison and John Porter become estranged but reconcile after the death of their child in this John Osborne play.

Answer: Look Back in Anger

[10] Subtitled "A Story of the Buried Life," this novel follows the maturation of Eugene Gant before he sets out for romance.

Answer: Look Homeward, Angel

8. Name these new TV shows for 10 points each.

[10] Starring Keifer Sutherland, the odd thing about this Fox show is that it takes place entirely in one day.

Answer: 24

[10] In another stunningly ineffective bid for young audiences, CBS gave Richard Dreyfus his own vehicle with this show.

Answer: The Education of Max Bickford

[10] Jason Alexander's title character in this ABC show is remarkably similar to his KFC commercials.

Answer: Bob Patterson

9. Identify the following about neurons for 10 points each.

[10] The membranes of these cells create the myelin sheath that surrounds most axons.

Answer: Schwann or neurilemma cells

[10] These 2-millimeter gaps in the myelin sheath expose the nerve to the external environment.

Answer: nodes of Ranvier

[10] This is the name given to the main body of a neuron.

Answer: soma

10. Identify the following works of Henry James from brief descriptions for 10 points each.

[10] Morris Townsend courts Catherine Sloper in pursuit of her inheritance; she rebuffs him after her father's death.

Answer: Washington Square

[10] The narrator of this novella tries to gain access to the title object, private notes of a famous poet in the possession of his mistress.

Answer: The Aspern Papers

[10] Kate Croy and Merton Densher attempt to gain Milly Theale's inheritance by engineering an affair.

Answer: The Wings of the Dove

11. Identify the authors of the following philosophical works for 10 points each.

[10] Logical Investigations

Answer: Edmund Husserl

[10] I and Thou

Answer: Martin Buber

[10] Principia Ethica

Answer: George Edward Moore

12. Answer the following about controversial art exhibits for 10 points each.

[10] Edouard Manet's exhibition of this portrait of a reclining nude caused a great scandal at the 1865 Salon.

Answer: Olympia

[10] An exhibit of his photography in the Cincinnati Contemporary Arts museum resulted in an obscenity trial of the curator.

Answer: Robert Mapplethorpe

[10] This artist's dung-laden "Holy Virgin Mary" at the 1999 Sensation exhibit caused a stir.

Answer: Chris Ofil

13. Name the following organizations for 15 points each.

[15] Founded in Detroit in 1915, it takes its name from an Indian word for “we make ourselves known.”  
Affiliated groups include Key Club and Circle K.

Answer: Kiwanis International

[15] Founded by Father Michael McGivney, it is a service and social organization for Roman Catholic men.

Answer: Knights of Columbus

14. 30-20-10, name the institution.

[30] It was divided into an lower and upper body, the latter of which was a court that merged with the High Courts in 1880.

[20] Constituted as a legal entity by Henry I, it takes its name from the Latin for “chessboard.”

[10] Headed by its “Chancellor,” it is still the unofficial name for the British Treasury.

Answer: British Exchequer

15. Answer the following about mineral hardness for 10 points each.

[10] This mineral is defined as a 1 on the Mohs hardness scale.

Answer: talc

[10] This mineral is defined as a 9; varieties include sapphire.

Answer: corundum

[10] This hardness test is used for non-mineral items. It measures the impression left on an object by a diamond pyramid.

Answer: Vickers test

16. 30-20-10, name the author from works.

[30] The Death of the Moth; The Voyage Out

[20] The Waves; Mrs. Dalloway

[10] Orlando; To the Lighthouse

Answer: (Adeline) Virginia Woolf

17. Signed on March 25, 1957 by representatives of six countries, it began the process of creating the European Community. For 10 points each –

[10] Name this set of treaties that created the European Economic Community.

Answer: Treaties of Rome

[10] The Rome agreements also created this organization dedicated to coordinating a specific utility on a continental level.

Answer: Euratom or European Atomic Energy Community

[10] The EEC, Euratom, and this organization merged to form the European Community in 1967.

Answer: European Coal and Steel Community

18. Small hydrocarbons, when heated in the presence of oxygen, tend to burn. Answer the following about that process for 10 points each.

[10] If the only products of reaction are carbon dioxide and water, what is this process called?

Answer: complete combustion

[10] Incomplete combustion also yields this additional product.

Answer: carbon monoxide or CO

[10] How many moles of oxygen are consumed in the complete combustion of one mole of propane?

Answer: 5 ( $C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$ )

19. Identify the following diacritical marks. You will receive 5 for one, 10 for two, 20 for three, and 30 for all four.

[\*] two dots above an "a" in German

Answer: Umlaut or diacresis

[\*] an upwards slash through an "o" in Danish

Answer: stod

[\*] a downwards slash over an "e" in French

Answer: grave

[\*] a small "v" over an "o" in Czech

Answer: caron

20. Identify the following Jewish holidays from descriptions for the stated number of points.

[5] This is the Jewish new year celebration.

Answer: Rosh Hashanah

[5] This holiday's activities include the seder meal.

Answer: Passover or Pesach

[10] Celebrated on 1 Adar, this day commemorates the deliverance of the Jews from a plot to have them massacred, as told in the Book of Esther.

Answer: Purim

[10] Also called the Jewish Pentecost, this feast of 6 Sivan celebrates the giving of the Law to Moses on Mt. Sinai.

Answer: Shavuot