

2016 SOLON

PACKET 06:

TOSSUPS:

1. A composer from this country based an opera off of the hijacking of the Achille [ah-SHEEL] Lauro, *The Death of Klinghoffer*. After defecting from the USSR, George Balanchine co-created a ballet company in this country. Choreographers from this country include (*) Martha Graham. *Rodeo* and *Appalachian Spring* were ballets created by this country's Aaron Copland. FTP, name this homeland of the composer John C. Adams, as well as the New York Ballet Company.

ANSWER: United States of America (or America, or USA)

2. The main character of this play once gave his son a punching bag signed by Gene Tunney. One character in this play steals a pen from Bill Oliver and tells Miss Forsythe he is the quarterback for the New York Giants at Frank's Chop House. After (*) Happy and Biff leave him in the bathroom, the protagonist plants a garden and kills himself in a car crash for insurance money. FTP, name this Arthur Miller play about Willy Loman.

ANSWER: Death of A Salesman [CS]

3. The virial equation compressibility factor measures deviations from this law's implication that its subjects have a compressibility of one. This law's namesake entities are also subject to the Sackur-Tetrode equation. (*) "A" and "b" correction factors are included in van der Waals' correction of this law. FTP, name this equation that combines Charles', Boyles', Gay-Lussac's', and Avogadro's gas laws, often expressed as "PV=nRT."

ANSWER: Ideal Gas Law [SM] (accept IGL; accept Soave-Redlich-Kwong equation early; accept van der Waals equation early; do not accept either "virial equation" or "Sackur-Tetrode equations," since those are related, but not the same thing) [CS/SM]

4. Members of this religion refer to enlightenment as "overstanding" and oppression as "downpression." The holy texts of this religion include the *Kebrá Nagast*. Fish over a foot long, as well as added salt are taboo according to its (*) I-tal [EYE-tal] diet. This religion's members say "I and I" rather than "you and me." "Reasoning" sessions in this religion seek to communicate with Jah through the use of ganja. FTP, name this religion that venerates Haile Selassie and is based in Jamaica.

ANSWER: Rastafari (accept Rastafarianism, though Rastafaris dislike "isms") [CS/TB]

5. **A leader of one of these groups went missing outside the Machus Red Fox in 1975. That man, Jimmy Hoffa, led one of these called the Teamsters. One of these groups declined after the Haymarket Square Riots in Chicago; that one was led by (*) Terence Powderly.** Another one of these groups was founded by ex-cigar maker Samuel Gompers. FTP, name these organizations such as the AFL and Knights of Labor that collectively bargain to achieve workplace goals.

ANSWER: (Labor) Unions [HP/GP]

6. **Lactate is moved to this organ in the Cori Cycle, where gluconeogenesis occurs. This organ's Kupffer cells breaks down red blood cells received through the portal vein. When it fails to metabolize bilirubin properly, yellowing of the skin can occur, called (*) jaundice.** This organ which has four lobes can be affected by hepatitis and cirrhosis. FTP, name this largest internal organ, located below the gallbladder, which secretes bile and detoxifies blood.

ANSWER: Liver [RM]

7. **This nation's Kathiawar Peninsula is home to the Rann of Kutch. Rivers in this nation include the Tapti and Narmada, which flow into the Gulf of Khambhat. The Siachen Glacier is disputed between this country and its northern neighbor in (*) Kashmir, and this nation's highest point, Mount Kanchenjunga, is situated in the Himalayas.** FTP, name this home of the Taj Mahal which has a border dispute with Pakistan.

ANSWER: Republic of India (accept Bharat or Hindustan) [PP]

8. **The Hulse-Taylor binary pulsar emits this force's namesake waves. Henry Cavendish found this force's namesake constant with a torsion balance. This force is proportional to the inverse square of radius and the product of two masses according to (*) Newton's Universal Law for it.** On Earth, this force causes an acceleration of about 9.8 meters per second squared. FTP, name this attractive force that pulls objects downwards on Earth.

ANSWER: Gravity [EF]

9. **This author was criticized by Derek Freeman for her work on the island of Ta'u. This author wrote about the Arapesh, Mundugumor, and Tchambuli people in one work, and in her most famous work, she argued that less restrictive (*) sexual norms led to decreased stress in the adolescents of the title locale.** For ten points, name this American anthropologist, the author of *Sex and Temperament in Three Primitive Societies* as well as *Coming of Age in Samoa*.

ANSWER: Margaret Mead [TB]

10. **This team defeated Penn State in the 2011 Outback Bowl after an interception by Ahmad Black. In the 1997 Sugar Bowl, this team's Ike Hilliard caught three touchdown passes from Danny Wuerffel. This team won the 2006 and 2008 BCS championships under (*) Urban Meyer, and former players from this team include Steve Spurrier and Tim Tebow.** FTP, name this SEC team from Gainesville that plays in The Swamp and has a rivalry with Miami.

ANSWER: Florida Gators (accept either underlined portion, prompt on "UF") [PP]

- 11. The Taylor Series for this function consists of only even factorials and powers in its fractions. This function's namesake law modifies the Pythagorean Theorem by adding a negative term that contains this function. When this function is evaluated at (*) “pi-over-two,” it equals zero. This even function’s reciprocal is the secant function. FTP, name this trigonometric function equal to the quotient of the side adjacent to the angle and the hypotenuse in a right triangle.**

ANSWER: Cosine [HP]

- 12. This painting features two massive statues of Apollo and Athena on either side. In the center of the painting, a man in purple clothing writes on a slab of stone, and an old man who lies sprawled across the steps might be (*) Diogenes of Sinope. In this painting, the Timaeus and Nicomachean Ethics are grasped by the two central philosophers. FTP, name this painting which features Plato and Aristotle in the title institution of a Greek city, by Raphael.**

ANSWER: School of Athens [RM/PP]

- 13. This novel’s protagonist is called “Trot” by his aunt Betsey and “Daisy” by James Steerforth, and he hails from Blunderstone Rookery. Jane owns a steel purse and is the protagonist’s aunt-in-law after his mother Clara marries Edward (*) Murdstone in this work. The title character goes to Salem House and marries Agnes Wickfield in—FTP—what Charles Dickens novel, whose primary antagonist is Uriah Heep?**

ANSWER: *The Personal History, Adventures, Experience and Observation of David Copperfield the Younger of Blunderstone Rookery (Which He Never Meant to Publish on Any Account)* [CS]

- 14. It’s not global warming, but this phenomena leads to an increase in vertical wind shear, which in turn can prevent hurricanes from forming. It results from decreased Walker circulation, and this phenomenon is measured by the (*) Southern Oscillation Index. This phenomenon can cause extreme flooding in South America. FTP, name this phenomenon, the warming of the eastern Pacific Ocean, whose counterpart is called La Nina.**

ANSWER: El Nino [SM]

- 15. The phrase “Keep Calm and Carry On” was first used during an attack on this city. Isambard Kingdom Brunel designed “The Crystal Palace” for a World’s Fair that was hosted in this city. An event known as “The Great Stink” led to several (*) cholera epidemics in this city; those epidemics eventually ended after this city’s sewer system was mapped by John Snow. FTP, name this city, the capital of the United Kingdom.**

ANSWER: London [HP]

16. A poem in this form laments its author's aging to 29; another by the same author declares "they also serve who only stand and wait;" that one is about Milton's blindness. A poem in this form states "Keep ancient lands your storied pomp" and "give me your (*) tired, your poor." One of the most famous declares "Thou art more lovely and more temperate." FTP, name this 14-line form of "The New Colossus" and "Shall I Compare Thee to a Summer's Day?"

ANSWER: Sonnet [CS]

17. In Inuit mythology, this action was caused by the flapping of a bird's wings. According to Celtic mythology, a horse named Eiocha was born and gave birth under a tree to start this event. There is controversy surrounding whether the Chinese myth of (*) Pangu breaking out of an egg was believed to be the start of this event. FTP, name this event that, according to the Bible, God took 6 days to complete in the Book of Genesis.

ANSWER: Creation of the World (prompt partial answer, accept clear-knowledge equivalents) [GP]

18. Characters with this general profession include Tolstoy's Sergius and Dostoevsky's Tikhon and Zosima. After a man steals silverware, another man with this job claims to have gifted silver to him, saving Jean (*) Valjean from prison. That man is named Myriel. Another kills a woman who owns the goat Djali and hires a cripple who is crowned "Pope of Fools" as a bellringer, Quasimodo. FTP, name this job of Claude Frolo in *The Hunchback of Notre Dame*.

ANSWER: Priest (accept anything indicating that are clergy or work in the church) [CS]

19. This ruler passed a law that limited forced peasant labor, known as the Robot Patent. This ruler also allied with France and Russia in the Diplomatic Revolution of 1756, and she ceded land to Frederick the Great in the (*) Treaty of Breslau. This woman gained the throne after negotiating the Pragmatic Sanction. FTP, name this female Hapsburg ruler who took the throne after winning the War of Austrian Succession.

ANSWER: Maria Theresa (prompt on partial answer) [HP]

20. This city is home to the Sassetti Chapel and its Baptistery of San Giovanni holds pieces by Andrea Pisano and Lorenzo Ghiberti. Its large cathedral has a 150 foot long dome that was conceived by Filippo (*) Brunelleschi. This city is home to Michelangelo's *David*. Many paintings were destroyed in its Bonfire of the Vanities, some of which the Medicis commissioned. FTP, name this home of the Uffizi Gallery, located in Tuscany.

ANSWER: Florence (accept Firenze) [RM]

Tiebreaker:

21. This country's city of Darwin was bombed during a Japanese plan to cut off supplies to this country. That plan, known as Operation FS, failed after the Battle of the Coral Sea. This country celebrates a national holiday with its eastern neighbor commemorating its troops in the (*) Battle of Gallipoli. That holiday is celebrated along with New Zealand and is ANZAC day. FTP, name this country whose capital is Canberra.

ANSWER: The Commonwealth of Australia [HP]

BONUSES:

1. Name the following psychological test subjects, for 10 points each:

[10] These animals were used in the Kerplunk experiment. They are often trained to run through mazes in labs, hence their “lab” variety. Social science questions on rodents are always on these, and not mice.

ANSWER: Rats

[10] A 1969 experiment had these animals self-administer drugs, and one named “Britches” had its eyes sewn shut for science. Harry Harlow put them in a “pit of despair” and gave them wire “mothers.”

ANSWER: Monkeys (accept macaques, rhesus macaques, or rhesus monkeys)

[10] Experiments on these subjects include Walter Mischel’s Stanford marshmallow experiment. Sherif’s Robber’s Cave Experiment accomplished the goal of getting them to fight one another.

ANSWER: Children (or clear-knowledge equivalents; prompt on “humans”) [CS]

2. Answer the following about the early years of the Cold War, for 10 points each:

[10] This president’s namesake doctrine established that the U.S. would provide assistance to countries threatened by Soviet forces or Communist rebellion.

ANSWER: Harry S. Truman [accept Truman Doctrine]

[10] The Truman Doctrine was specifically prompted by Soviet threats to Greece and this country. In order to resolve the Cuban Missile Crisis, the U.S. agreed to remove Jupiter missiles from this country.

ANSWER: Turkey

[10] Truman’s administration promoted this economic plan funding the rehabilitation of Western Europe after World War II. The plan is named for the Secretary of State who oversaw its implementation.

ANSWER: Marshall Plan [accept George Marshall] [TB]

3. Schumann contrasted the “Eusebius” and “Florestan” portions of his personality in movements of a work titled for one of these events. For 10 points each:

[10] Name these events. “Pianists” play imitations of students practicing scales in a work titled for one “of the Animals.”

ANSWER: Carnival (or Carnaval; accept Carnival of the Animals)

[10] This composer of the “Egyptian” piano concerto and *Samson and Delilah* wrote the *Organ Symphony* and *Carnival of the Animals*.

ANSWER: Camille Saint-Saens

[10] Hector Berlioz wrote a Roman Carnival Overture, but is more famous for this composition, written on opium, for Harriet Smithson; Smithson is represented by a 40-bar idee fixe borrowed from *Herminie*.

ANSWER: Symphonie Fantastique (accept Fantastical Symphony or Fantastic Symphony)[CS]

4. This mountain range stretches over 1600 miles across Algeria, Morocco, and Tunisia, and is also home to many species unique to Africa such as the Barbary Lion. For 10 points each:

[10] This mountain range stretches across northern Africa and include the Aurès Mountains.

ANSWER: Atlas Mountains

[10] This third-largest desert in the world contains the Nile Valley and the aforementioned Atlas Mountains.

ANSWER: Sahara Desert

[10] These semi-nomadic “blue people” write in the native tiffinagh script and mainly inhabit the Sahara Desert near the Air Mountains in Azawad.

ANSWER: Tuaregs (prompt on “Berbers”) [EL/PP]

5. A knight “gaily bedight” asks a “peasant shadow” for directions in this man’s “Eldorado.” For 10 points each:

[10] Name this American poet. He is more famous for a poem set “in the bleak December,” whose title figure rests on the “pallid bust of Pallas.” He also wrote “The Fall of the House of Usher.”

ANSWER: Edgar Allan Poe

[10] Stephen Mallarme wrote about one of these places belonging to Edgar Poe, and Hart Crane wrote of Melville’s one. A Poe narrator enters one “prematurely,” and Fortunato’s is in a wine cellar.

ANSWER: Tomb (accept At the **Tomb** of Edgar Poe; accept At Melville’s **Tomb**; accept any answer that conveys the idea of a **burial** site, **grave** or **final resting place**)

[10] This Poe story is set at a ball in seven chambers of different colors held by Prince Prospero to hide from the titular disease.

ANSWER: “Masque of the Red Death” [CS]

6. The Book of Mark says this man was clothed in camel’s hair, and he ate locusts and wild honey. For ten points each:

[10] Name this man. Salome **[SAL-oh-may]** asked King Herod for this man’s head on a platter, a request that Herod fulfilled.

ANSWER: (Saint) John the Baptist (accept **John the Baptizer** or **John the Forerunner**, prompt on “John” alone)

[10] John baptized this man in the Jordan River, after which a voice from heaven called this man “My beloved Son, in whom I am well pleased.”

ANSWER: Jesus (the) **Christ** (accept either underlined portion, accept **Jesus of Nazareth**)

[10] John the Baptist is often linked with this Old Testament prophet, partly because of a verse in Malachi. This prophet clashed with Ahab and appeared with Moses during Jesus’s Transfiguration.

ANSWER: Elijah [accept **Eliyahu** or **Elias**, do NOT accept or prompt on “Elisha”] [TB]

7. Oxygen and Silicon are the two most abundant elements in this region. For 10 points each:

[10] Name this region of the Earth that, along with the mantle, make up the lithosphere.

ANSWER: Crust

[10] The lithosphere is broken up into these sections that can meet at convergent, divergent, or transform boundaries.

ANSWER: Tectonic Plates (prompt partial answer)

[10] At convergent boundaries, this process occurs. It is responsible for the formation of the “ring of fire” volcanoes.

ANSWER: Subduction [EF]

8. During transportation to the League of Nations headquarters, this painting was stained with a red spot, which covered a sword. For 10 points each:

[10] Name this iconic painting depicting the execution of citizens of Madrid by Napoleon’s army. In this painting, a man stands with his arms outstretched to protect his family.

ANSWER: The 3rd of May, 1808 (accept *El tres de mayo de 1808 en Madrid* or *Los fusilamientos de la montaña del Príncipe Pío*, or *Los fusilamientos del tres de mayo*)

[10] This painter of *The 3rd of May, 1808* was the court painter of Charles IV. He also painted *Saturn Devouring His Son* and *The Nude Maja*.

ANSWER: Francisco de Goya

[10] This series of fourteen paintings by Goya, which includes *El Perro*, *Two Old Men Eating Soup*, and *Witches’ Sabbath*, portray dark tones.

ANSWER: Black Paintings [RM]

9. Archbishop of Canterbury Stephen Langton helped create this document. For 10 points each:

[10] Name this document signed by King John in 1215. It diminished the power of the king and led to the creation of the English Parliament.

ANSWER: Magna Carta (accept **Great Charter**, prompt “Runnymede Charter”)

[10] These people were the major proponents of the Magna Carta. These people led a namesake war against King John when he refused to sign the Magna Carta.

ANSWER: Barons

[10] The Barons led another war against this king who succeeded Henry III. He won the Battle of Falkirk against the forces of William Wallace.

ANSWER: Edward Longshanks (or **Edward I**; prompt on “Edward” alone) [HP]

10. For 10 points each, name the following Trojans:

[10] This Trojan's corpse was dragged around the city after Achilles defeated this husband of Andromache and strongest Trojan warrior

ANSWER: Hektor

[10] This man, first known as Podarces, was killed on Zeus' altar by Neoptolemus. This father of one hundred children, including Hector and Paris, was king of Troy.

ANSWER: Priam

[10] Coroebus and Othryoneus [Oath-ree-OH-nee-us] tried to court this woman whom Ajax the Lesser raped. While sleeping in Apollo's temple, snakes cleaned her ears, and she was cursed so no one would believe her prophecies.

ANSWER: Cassandra [CS]

11. Thomas Gray wrote an ode for one of these creatures "Drowned in a Tub of Gold Fishes." For ten points each,

[10] Name these animals. Romeo calls Tybalt the "prince" of these animals, given his name's similarity to that of Tybert, who is one of these animals, like the Cheshire one.

ANSWER: Cats

[10] Tybert comes from the same folkloric cycles as Chaunticleer, who is almost killed because he listened to his wife in this man's "Nun's Priest's Tale." This author also wrote "The Knight's Tale."

ANSWER: Geoffrey Chaucer

[10] Chaunticleer nearly falls victim to one of these animals in the "Nun's Priest's Tale." Goethe's Reineke is one who fights the wolf Ysengrim. Ben Jonson's *Volpone* is subtitled for this animal.

ANSWER: Fox (accept Reynard, or Don Russell, Reineke Fuchs, or vulpes vulpes) [CS]

12. This organization began as Jama'at al-Tawhid wal-Jihad and was originally led by the Jordanian Abu Musab Al-Zarqawi. For 10 points each:

[10] Name this Sunni extremist caliphate which claims land in two countries. It captured the cities of Fallujah and Mosul in 2014 and is currently led by Abu Bakr Al-Baghdadi.

ANSWER: Islamic State of Iraq and Syria (accept ISIS, ISIL, Islamic State of Iraq and the Levant, Daesh, or equivalent)

[10] One group fighting ISIS is the Syrian government, which has been led by this man since 2000. A rebellion against this man led to the Syrian Civil War.

ANSWER: Bashar Al-Assad

[10] ISIS claims this Syrian city as its capital. The Shi'ite Uwais al-Qarni Mosque in this city was destroyed in 2014.

ANSWER: Al-Raqqa [PP]

13. This region of the atom was notably missing in Thomson's "plum-pudding" model. For 10 points each:

[10] Name this structure that is located in the center of an atom.

ANSWER: Nucleus

[10] The nucleus consists of neutrons and these particles made up of two up quarks and one down quark. They have a positive charge.

ANSWER: Protons (accept H+, Hydrogen-1 nuclei)

[10] Due to this phenomenon, in any atom with more than one electron shell, the pull of the nucleus on the outer shells is decreased, due to blockage from the interior shells.

ANSWER: Electron Shielding [EF]

14. The Chetniks were a resistance movement that formed in this country. For 10 points each:

[10] Name this country which was led during the Cold War by Josip Tito. It split apart in 1991 to form countries such as Croatia and Slovenia.

ANSWER: Yugoslavia

[10] Yugoslavia, along with several other nations such as Indonesia, founded this movement. Members of this movement remained neutral during the Cold War.

ANSWER: Non-Aligned Movement (Accept NAM)

[10] Tito had a bitter relationship with this Soviet leader, and eventually split from his ideology. This man promoted the use of collectivization as part of his five-year plans.

ANSWER: Joseph Stalin (Accept Ioseb Besarionis Jughashvili) [AZ]

15. For a circle, this quantity can be calculated by multiplying the diameter times pi. For 10 points each:

[10] Name this quantity, which for a polygon is the sum of the lengths of the polygon's sides.

ANSWER: Perimeter

[10] This quantity can be calculated for a polygon using the Shoelace Theorem. For a triangle, it can be calculated by taking half of the perimeter and multiplying by the inradius, and Simpson's rule estimates this value under a curve.

ANSWER: Area

[10] The Second Fundamental Theorem of Calculus states that this operation can be used to calculate the exact area under a continuous curve. It can be commonly mistaken for the inverse of a derivative.

ANSWER: Integral (accept word forms, accept anti-derivative, accept indefinite/definite integral) [RC]

16. Characters in this musical sing about a place where everything's "free for a small fee" in "America." For 10 points each:

[10] Name this musical about the Sharks and the Jets, in which Tony falls in love with Maria.

ANSWER: West Side Story

[10] This composer of the operetta *Candide* based his *West Side Story* on *Romeo and Juliet*.

ANSWER: Leonard Bernstein

[10] Bernstein hosted "Young People's Concerts" as music director of this city's Philharmonic, which plays at Lincoln Center. *West Side Story* is also set in this American city.

ANSWER: New York City [CS]

17. "Elegy for Alto" was written by a native of this continent, as was Ken Saro-Wiwa's *Sozaboy*, written in "Rotten English." for 10 points each:

[10] Another author from this continent penned "Decolonizing the Mind" and henceforth only wrote in Kikuyu. Naguib Mahfouz [Na-GEEB Mah-FOOZ] was born on this continent.

ANSWER: **Africa** [Christopher Okigbo wrote "Elegy for Alto;" Ngugi wa Thiong'o wrote *Decolonizing the Mind*]

[10] Mahfouz was born in this country, and set a trilogy opening with *Palace Walk*. Its ancient texts include the *Tale of Two Brothers*, and both Mahfouz and Tawfiq al-Hakim wrote here in Arabic.

ANSWER: **Egypt**

[10] Christopher Okigbo, Ken Saro-Wiwa, as well as the author of *The Famished Road*, Ben Okri, were born here. Wole Soyinka wrote plays here. Another author from this country wrote *Arrow of God*.

ANSWER: **Nigeria** [Chinua Achebe wrote *Arrow of God*] [CS]

18. This ruler created a torture chamber which was meant to look like a palace. For 10 points each:

[10] Name this son of Bindusara who became the Mauryan Emperor. As emperor, this man issued the Rock Edicts.

ANSWER: **Ashoka** Maurya (accept **Ashoka the Great**)

[10] After witnessing massive bloodshed, Ashoka converted to this religion, becoming a pacifist and adherent of "conquest by Dharma."

ANSWER: **Buddhism**

[10] Ashoka's conversion to Buddhism came as a result of the massive bloodshed during this war.

ANSWER: **Kalinga** War [HP]

19. This structure is absent in Gram-negative bacteria. For 10 points each:

[10] Name this organelle which surrounds the cell membrane and provides rigidity in plants.

ANSWER: **Cell wall**

[10] This polysaccharide is found in cell walls and gives wood its familiar strength. It is the most abundant polymer on Earth.

ANSWER: **Cellulose**

[10] As opposed to cellulose in plants, fungi have this glucose derivative in their cell walls, which also makes up the exoskeletons of arthropods and the beaks of cephalopods.

ANSWER: **Chitin** [RM]

20. Rimbaud wrote about *A Season* in this location, which William Blake married this place to its higher counterpart. For 10 Points Each:

[10] Name this place where Don Juan spends a very long time in a Charles Baudelaire poem. Jean-Paul Sartre called it “other people.”

ANSWER: Hell

[10] Rimbaud and Baudelaire belong to this loose group of French poets, who kind of liked hell and Edgar Allan Poe. They believed art should indirectly evoke the truth, such as through this movement’s namesake literary devices.

ANSWER: Symbolism (or Symbolists)

[10] Continuing the tradition of hellbound Frenchmen is this character who shoots an Arab because the sun was too hot, but doesn’t really care. He is the title character of an Albert Camus work.

ANSWER: Meursault (accept The Stranger or L’Etranger) [CS]

Tiebreaker:

21. The monopole variety of these objects are forbidden as a result of Gauss’s law. For 10 points each:

[10] Identify these objects that produce a namesake field, symbolized by B, and have north and south ends.

ANSWER: Magnets (accept word forms)

[10] The permanent magnetism often exhibited by materials such as cobalt, nickel is given this prefix, from the Latin name of the most common metal to exhibit it.

ANSWER: Ferromagnetism (prompt “iron”)

[10] The SI unit for magnetic field strength is named after this man, who is also known for his rivalry with another man over the use of his alternating versus the other’s direct current.

ANSWER: Tesla [EF]