Collegiate Written by Ewan MacAulay, Grant Boggess, Austin Brownlow, Michael Chuber, Alex Dzurick, Joey Novice 4 Goldman, Nicholas Karas, Melanie Keating, Paul Kelson, Benjamin Johnson, Grace Liu, Brian Fall 2013 Mongilio, Itamar Naveh-Benjamin, Robert Pond, Victor Prieto, Jacob Reed, Graham Reid, Jihye Shin, Packet 1 Jonathan Tong Xu, Eric Xu, and Haohang Xu. Edited by Andrew Hart.

1. In one story, this figure's death came about due to his infatuation with the princess Polyxena. This figure, who used his spear to heal Telephus, the King of Mysia, owned the horses Balius and Xanthus. He killed the Amazonian warrior Penthesilea and fathered his son Neoptolemus while living in the court of Lycomedes. He fought and killed the warrior who slayed this man's friend Patroclus, who was wearing this man's armor. For 10 points, name this Greek hero who killed Hector and died when an arrow pierced his vulnerable heel.

## ANSWER: Achilles

2. This composer wrote a comic singspiel opera called The Impresario in a competition against an Italian composer's First the Music, then the Words. The death of this man's mother inspired his Piano Sonata No. 8, which was written in A minor while he was on a trip to Paris that also yielded his Symphony No. 31. One of this composer's piano sonatas contains a rondo section "Alla Turca." Franz Xaver Sussmayr completed this man’s Requiem Mass in D minor. For 10 points, name this German composer whose operas include The Magic Flute and Don Giovanni. ANSWER: Wolfgang Amadeus Mozart [or Johannes Chrysostomus Wolfgangus Theophilus Mozart]
3. This work's narrator evokes the phrase "morituri te salutant" after he glimpses two women feverishly knitting black wool. The narrator describes a character with a seemingly pointless profession as a "papier-mâché Mephistopheles" in this work, which describes a journey on a steamboat with the Eldorado Exploring Expedition. At the end of this novel, the narrator refuses to tell the Intended that a man's last words were "the horror! The horror!" For 10 points, name this novella about Marlowe's attempts to find Kurtz in the Congo, by Joseph Conrad.

## ANSWER: Heart of Darkness

4. The first man to photograph this event was Lee Embree, who was at a stopover at Hickam Field. This event, which occurred on a Sunday morning, diverted resources from the Southern Operation. The coded message to "climb Mount Niitaka" began this event, which coincided with a raid on the Philippines. Admiral Yamamoto masterminded this event that damaged the battleships Oklahoma and Arizona. For 10 points, name this December 7th surprise attack on a Hawaiian naval facility that ushered the United States into World War II.
ANSWER: Japanese attack on Pearl Harbor
5. One measure for this commodity is equal to the price level times the quantity of output, all divided by the supply, according to the "quantity theory" of it. Georg Simmel wrote that this commodity is impersonal, unlike barterable items, in his book on the "philosophy" of it. The fiat form of this commodity has value dictated by government order. The supply of this commodity is divided into levels called M1, M2, and M3, ranked in order of liquidity. For 10 points, name this commodity that can be exchanged for goods and services.
ANSWER: money [accept velocity of money]
6. Both implications of this concept are considered under Niels Bohr's complementarity principle. This concept explains the result of an experiment in which electrons fired at a nickel crystal had a scattering pattern consistent with Bragg's law. This concept, which was confirmed by the Davisson-Germer experiment and generalized to all matter by de Broglie, accounts for the distinct ways that light behaves. For 10 points, name this concept through which quantum-scale objects exhibit properties of both oscillations and single points of matter.
ANSWER: wave-particle duality [accept wave nature of electrons or any answer indicating that matter acts like a particle and a wave; accept de Broglie hypothesis before "de Broglie"]
7. This artist painted himself holding a paint palette and wearing a black shirt adorned by a red cross on the left side of a work that also depicts Nieto in a doorway. This artist, who painted a topless Bacchus offering others wine in his Los Borrachos, showed the title figure staring into a mirror held by a cupid in his Rokeby Venus. In another painting, this artist depicted a dog lying down by two dwarves, who stand near several maids of honor. For 10 points, name this Spanish artist who painted the Infanta Margarita in Las Meninas.
ANSWER: Diego [Rodríguez de Silva y] Velázquez
8. This man extended Gauss's ideas about curvature in three-dimensional space to surfaces in higher dimensional space. In an 1859 paper, he used a complex variable to analyze a function whose zeroes he posited are on the critical line, meaning they have a real part of one-half. He names a method in which points are taken on a function to create rectangles, which are added together to approximate area. For 10 points, what German man who names a zeta function has "sums" that can evaluate a definite integral?

## ANSWER: Georg Friedrich Bernhard Riemann [or George Frederick Bernhard Riemann]

9. In one appearance, this character nonsensically prescribes tetracycline because "patient presented with gastric bacterial infection." In another appearance, this character's mouth is full of ether, which causes him to be arrested for kidnapping at the Church of the Good Shepherd. This character, who is made to say "my name is Judge" by a magazine insert, sings that "it ain't easy being black" and serves as Nellie's pimp. His skin color eventually changes when he is washed at a laundromat. For 10 points, name this offensive black puppet from Arrested Development. ANSWER: Franklin Delano Bluth [prompt on Bluth]
10. One term in this equation is defined by the ratio of the initial concentrations in the reaction. This equation, which can be modified to analyze a membrane that is permeable to multiple ions, contains a term symbolized Q that is called the reaction quotient. The Goldman equation is a modification of this equation, which is often demonstrated by the use of a salt bridge connecting a cathode and an anode in solution. For 10 points, name this equation that calculates the potential of an electrochemical cell, named for a German.
ANSWER: Nernst equation [accept Goldman-Hodgkin-Katz equation before "Goldman"]
11. One gullible character in this novel born in Tisbury goes by the nickname of "King-Post." The narrator claims that he finds himself "growing grim about the mouth" and with a "damp, drizzly November in my soul" at the beginning of this novel, which describes a man with a turban made out of his own beard named Fedallah. Flask and Tashtego are characters in this novel that centers on the megalomaniacal captain of the Pequod and his quest to kill the title creature. For 10 points, name this Herman Melville novel in which Captain Ahab seeks the white whale. ANSWER: Moby-Dick
12. In this phylum, animals in the genus Carukia and Carybdea can cause Irukandji syndrome. Anthozoa are unique among the classes in this phylum because they do not develop into a medusa stage, remaining as polyps for their
entire lives. One member of this phylum commonly forms symbiotic relationships with clownfish. Radial symmetry and explosive cells known as nematocysts are characteristic of this invertebrate phylum. For 10 points, name this invertebrate phylum that includes anemones and jellyfish.
ANSWER: cnidaria [prompt on coelenterates or coelenterata]
13. These people, who titled a book that was translated into English by Thomas Hoby in 1562, were expected to have a warrior spirit to attain grazia. In a series of conversations, Count Ludovico advises these people to "practice in everything a certain nonchalance that shall conceal design and show that what is done and said is done without effort and almost without thought," a concept known as sprezzatura. For 10 points, name this class of Renaissance Italians who were advised on behavior and etiquette in a book by Baldesar Castiglione.
ANSWER: courtiers [accept The Book of the Courtier; or Il Cortegiano]
14. One ancient ritual on this day involved tying a red band around the horns of a goat and leading it off a cliff. It was the only day that the Kohen Gadol could enter the Holy of Holies. The traditional greeting on the eve of this holiday is "Tzom kal." This holiday, whose five prohibitions include wearing leather shoes and having sex, is bookended by the "Kol Nidre" and "Nei'la" prayers. This holiday occurs on the tenth of Tishrei, nine days after Rosh Hashanah. For 10 points, Jews fast for 25 hours on what Day of Atonement?
ANSWER: Yom Kippur [prompt on Day of Atonement before mentioned]
15. This city's Zappeion Hall was designed by Theophil Hansen. In this city, one building has a southern portico whose roof is supported by six female sculptures known as the Porch of the Caryatids. Another building in this city had its sculptures removed by Thomas Bruce, the Earl of Elgin. That building contained one frieze that depicts a battle between the Lapiths and Centaurs, and another in its east pediment portraying the birth of this city's namesake goddess of wisdom. For 10 points, name this city whose Acropolis houses the Erectheum and the Parthenon.
ANSWER: Athens [or Athenai]
16. This author wrote about the Gallic leader Autharitus in a novel chronicling the life of the title daughter of Hamilcar Barca. In another novel, this author wrote about Charles Deslaurier's friend, Frederic Moreau, who has an affair with Madame Arnoux. He wrote about the pharmacist Homais in a novel that centers on a woman married to a country doctor who has affairs with Leon Dupuis and Rodolphe Boulanger. For 10 points, name this author of Salammbo and A Sentimental Education who wrote about the cyanide-eating Emma in his Madame Bovary. ANSWER: Gustave Flaubert
17. This author discusses how the concept of "leaf" is a mere approximation, and the concept of "honesty" is even more so, in a work that claims "every word immediately becomes a concept." In one of his works, this author of "On Truth and Lies in a Nonmoral Sense" discusses the Apollonian and Dionysian dichotomy to describe how a dramatic genre came into existence. In another work, he created a character named the Madman who proclaims, "God is dead." For 10 points, name this author of The Gay Science, The Birth of Tragedy, and Beyond Good and Evil. ANSWER: Friedrich [Wilhelm] Nietzsche
18. This war was the subject of Pope Urban VIII's failed general council at Cologne. Ferdinand III reconvened the Imperial Diet to try to end this war. The second phase of this war began after the Battle of Stadtlohn with the socalled "Kejserkrigen" of Danish king Christian IV. Envoys from Ferdinand of Styria were thrown out of a second-
floor window in Prague, sparking the first phase of this war, the Bohemian Revolts. For 10 points, name this war in Central Europe, which ended with the Peace of Westphalia and lasted from 1618 to 1648.
ANSWER: Thirty Years' War
19. One play by this author describes the only one of the fifty Danaids, Hypermnestra, who did not kill her husband. In another play, he wrote about the mother of Xerxes, Atossa, who confronts the ghost of Darius about the loss at Salamis. This author of The Suppliants and The Persians wrote of Eteocles and Polynices in Seven Against Thebes and penned a trilogy whose title figure kills Clytemnestra and Aegisthus. For 10 points, The Libation Bearers and Agamemnon are included in the Oresteia trilogy of what oldest of the three great Athenian tragedians?

## ANSWER: Aeschylus

20. In this country, the execution of Auguste Chapdelaine caused France to enter a war that began with this country's seizure of the merchant ship Arrow. A man claiming to be the younger brother of Jesus established the Heavenly Kingdom in this country, which is where the Eight Nation Alliance put down a revolt led by the Society of the Righteous and Harmonious Fists. This country was the site of the Opium Wars and the Taiping and Boxer Rebellions. For 10 points, name this country ruled during the 19th century by the Qing Dynasty.
ANSWER: China [or Zhongguo]
TB1. To determine if a Fourier series has this property, the Dini-Lipschitz criterion is used. The Bolzano-Weierstrass theorem states that every bounded sequence in Rn has a subsequence that has this property. A Cauchy sequence has this property if its metric space is complete. A geometric series has this property if the absolute value of the common ratio is less than one. The harmonic series does not have this property. For 10 points, name this property of a sequence or series that approaches a finite limit, contrasted with divergence.
ANSWER: convergence [accept word forms]

TB2. This author recalls discovering "a leaping tongue of bloom the scythe had spared" in one work. He wrote another poem in which "a flower unplucked is but left to the falling." This author of "The Tuft of Flowers" and "Asking for Roses" remembered being "overtired of the great harvest I myself desired" in "After Apple-Picking." In another poem, he states that "one could do worse than be a swinger of" the title trees. This author of "Birches" questioned whether "good fences make good neighbors." For 10 points, name this American poet of "Mending Wall."
ANSWER: Robert [Lee] Frost

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1. This collection inspired the form of Chaucer's Troilus and Criseyde. For 10 points each:
[10] Name this poetry collection from the 14th century, dedicated to the author's love Laura.
ANSWER: Il Canzoniere [or Song Book]
[10] Il Canzoniere was written by this early Italian poet, who detailed his ascent of Mount Vetnous in the fourth of his Epistolae familiars.
ANSWER: Petrarch [or Francesco Petrarca]
[10] Petrarch names a type of these typically 14-line-long poems, often contrasted with the Shakespearean variety of them.
ANSWER: Petrarchan sonnets
2. This man's ability to keep a continuous supply line going to the French front line during the Battle of Verdun was important in blunting the German advance in 1916. For 10 points each:
[10] Name this French general who collaborated with the invading Nazis during World War II.
ANSWER: [Henri] Philippe [Benoni Omer Joseph] Petain [or Marshal Petain]
[10] When France fell in 1940, control over the north and west of the country was ceded to Germany, leading Petain so set up a paternalistic new regime headquartered at this spa town.
ANSWER: Vichy
[10] The motto of Vichy France paired "work" and "family" with this nationalistic concept.
ANSWER: fatherland [or patrie; prompt on homeland or equivalents]
3. This thinker was known as Doctor Universalis. For 10 points each:
[10] Name this 13th-century Italian theologian who wrote Summa Theologica.
ANSWER: Saint Thomas Aquinas [or Thomas of Aquino]
[10] In Summa Theologica, Thomas Aquinas puts forth this many proofs for God's existence.
ANSWER: five [accept equivalents]
[10] Aquinas was a philosopher of this school, which placed emphasis on dialectical reasoning. Other prominent members of this school include Duns Scotus and William of Ockham.
ANSWER: Scholasticism [accept word forms]
4. Name these early American rebellions, for 10 points each.
[10] After Congress followed Alexander Hamilton’s suggestion of a liquor tax to pay down the national debt, Pennsylvania farmers mounted this rebellion.
ANSWER: Whiskey Rebellion/Insurrection
[10] In this Articles of Confederation-era uprising, debtors in Massachusetts forced several courts to close, and the namesake revolutionary war veteran led an attack on the Springfield Arsenal.
ANSWER: Shays' Rebellion
[10] This 1840s rebellion took place after a Rhode Island politician, who had been elected governor by the General Assembly, wasn't recognized by the old government of the state.
ANSWER: Dorr's Rebellion
5. Although many esters have a "fruity" smell, this property is not responsible. For 10 points each:
[10] Name this property of a molecule that contains a conjugated ring of delocalized electrons. According to Hückel's rule, compounds with this property contain 4 n plus 2 pi electrons.
ANSWER: aromaticity [accept word forms like aromatic; do not accept "anti-aromaticity"]
[10] This compound, containing six carbons and six hydrogens, is the simplest aromatic compound.
ANSWER: benzene [prompt on C-6-H-6]
[10] This scientist, who names a constant measured at 96,485 coulombs per mole of electrons, discovered benzene in 1825.

ANSWER: Michael Faraday
6. This play's title figure organizes a great feast at its conclusion. For 10 points each:
[10] Name this play that centers on the title king's daughter, Imogen, and her marriage to Posthumus Leonatus.
ANSWER: Cymbeline, King of Britain [or The Tragedy of Cymbeline]
[10] Cymbeline was written by this British author of All's Well that Ends Well.
ANSWER: William Shakespeare
[10] This Shakespeare play centers on the title prince of Denmark, who attempts to prove that his father-in-law Claudius murdered the old king.
ANSWER: Hamlet
7. The T-tubules in this tissue, whose cells contain only one nucleus, are much larger and broader than those in skeletal muscle. For 10 points each:
[10] Name this type of involuntary striated muscle found in and around the heart.
ANSWER: cardiac muscle
[10] Unlike fully developed skeletal muscle, cardiac muscle contains these direct connections between the cytoplasm of adjacent cells, which allow heart muscles to contract in unison.
ANSWER: gap junctions
[10] For contraction to occur, cardiac muscle requires an extracellular concentration of the $2+$ ions of this element, which is a major component of bone.
ANSWER: calcium [or $\underline{\mathbf{C a}}$ ]
8. By this statement, the sum of the products of the initial velocities and masses in a collision are equal to the sum of the products of the final velocities and masses. For 10 points each:
[10] Name this statement that the product mass and velocity remains constant in the absence of an external force.
ANSWER: conservation of momentum [accept conservation of linear momentum]
[10] In addition to momentum, kinetic energy is conserved in this type of collision.
ANSWER: perfectly elastic collision
[10] Conservation of momentum is a consequence of this theorem, named for a German woman, which states that symmetry in a physical system will create a corresponding conservation.
ANSWER: Noether's [first] theorem
9. This deity once lifted the foot of the Midgard Serpent in the guise of a cat. For 10 points each:
[10] Name this Norse god who owns the massive hammer Mjollnir and will kill and be killed by the Midgard Serpent at Ragnarok.

## ANSWER: Thor

[10] Thor is the Norse god associated with this loud natural phenomenon that, in Greek myth, accompanies bolts thrown by Zeus.
ANSWER: thunder
[10] After killing Hrungnir, Thor gave Gullfaxi, a golden animal of this type, to his son Magni.
ANSWER: horses
10. Examples of these concepts include the mother, the trickster, and the child. For 10 points each:
[10] Name this psychological term of collectively inherited unconscious ideas that are universally present in individual psyches.
ANSWER: archetypes
[10] This Swiss psychiatrist created the concept of archetypes as well as the "collective unconscious."
ANSWER: Carl [Gustav] Jung
[10] Jung's book Psychological Types is the inspiration for this doubly eponymous psychological test that classifies people on two axes as extrovert or introvert and judging or perceiving.
ANSWER: Myers-Briggs Type Indicator [or MBTI]
11. Alain Locke is commonly regarded as this movement's "father." For 10 points each:
[10] Name this literary movement whose members included Claude McKay and Countee Cullen.
ANSWER: Harlem Renaissance [prompt on partial answer]
[10] This Harlem Renaissance poet wrote "The Weary Blues" and "The Negro Speaks of Rivers."
ANSWER: [James Mercer] Langston Hughes
[10] Harlem Renaissance member Zora Neale Hurston penned this novel about Janie Crawford’s life, which ends with Tea Cake getting bit by a rabid dog.
ANSWER: Their Eyes Were Watching God
12. This artist painted his dying wife in Camille on her Deathbed. For 10 points each:
[10] Name this French plein-air painter who painted several views of the Saint-Lazare Train Station and many Water Lilies near his garden in Giverny.
ANSWER: [Oscar] Claude Monet
[10] Monet was, along with Renoir and Pissarro, one of the founders of this art movement that was named for Monet's painting of a sunrise at La Havre.
ANSWER: Impressionism [accept word forms]
[10] Monet painted a series of paintings of this building in London from his window at the nearby St. Thomas Hospital.
ANSWER: Houses of Parliament [or Palace of Westminster]
13. For 10 points each, name some bodies that the Cassini-Huygens mission has visited.
[10] The Huygens half of the mission was a probe that landed on this largest of Saturn's moons, which has a thick atmosphere and pools of liquid methane.
ANSWER: Titan
[10] Cassini-Huygens used this gas giant to slingshot to Saturn, getting a pretty good close up of its "Big Red Spot" in the process.
ANSWER: Jupiter
[10] Cassini-Huygens observed this moon of Saturn, whose cryovolcanic geysers of water and hydrocarbons are thought to comprise Saturn's E ring.

## ANSWER: Enceladus

14. This ruler, who allied with Humphrey IV of Toron, led forces in the 1191 siege of Acre. For 10 points each: [10] Name this king of England who reached a truce with Saladin and led the Third Crusade.
ANSWER: Richard I [or Richard Coeur de Lion; or Richard the Lionhearted; prompt on Richard]
[10] Richard I was a member of this royal house of England, which reigned from the ascension of Henry II in 1154 until Richard III's defeat in 1485.
ANSWER: House of Plantagenet
[10] Richard I was succeeded by this monarch, his brother, who was forced by his barons to sign the Magna Carta.
ANSWER: King John [Lackland or Softsword]
15. A trip this composer took during Great Depression inspired his El Salon Mexico. For 10 points each:
[10] Name this American modernist composer who included a "Hoedown" in his ballet Rodeo.
ANSWER: Aaron Copland
[10] Aaron Copland wrote a work in this genre that is dedicated to the "common man" and includes four French horns, three trumpets, and three trombones.

## ANSWER: fanfare [accept Fanfare for the Common Man]

[10] Copland’s Lincoln Portrait alludes to "Camptown Races," a folk song written by this American songwriter of "Oh! Susanna" and "Old Folks at Home."
ANSWER: Stephen [Collins] Foster
16. This man's victory at the Battle of Vertiere forced the retreat of the Vicomte de Rochambeau. For 10 points each: [10] Name this man who declared himself emperor of a newly independent country in 1804.
ANSWER: Jean-Jacques Dessalines [or Jacques I]
[10] Dessalines, along with Henri Christophe and Toussaint L’ouverture, fought for the independence of this island country with capital Port-au-Prince.
ANSWER: [Republic of/Republique d'] Haiti [or Repiblik Ayiti]
[10] This 20th-century dictator of Haiti, nicknamed "Papa Doc," employed the brutal Tonton Macoutes secret police. ANSWER: Francois Duvalier [or Papa Doc Duvalier]
17. In Act II of this opera, Escamillo sings the "Toreador Song." For 10 points each:
[10] Name this opera that ends with Don Jose stabbing and killing the title gypsy girl, who earlier sang the habanera.

## ANSWER: Carmen

[10] Carmen is an opera by this French composer of the L'Arlesienne suite.
ANSWER: Georges Bizet [or Alexandre Cesar Leopold Bizet]
[10] The duet "Au fond du temple saint," sung by Nadir and Zurga, is from a Bizet opera about people who fish for these objects.
ANSWER: pearls [accept The Pearl Fishers or Les pecheurs de perle]
18. This author wrote about prostitutes in the title neighborhood in The Scarlet Gang of Asakusa. For 10 points each:
[10] Name this author who created Shimamura and the geisha Komako in Snow Country.
ANSWER: Yasunari Kawabata [accept names in either order]
[10] Kawabata is an author from this country, also the home country of Kenzaburo Oe.
ANSWER: Japan [or Nippon-koku; or Nihon-koku]
[10] Kawabata and Oe are the only two Japanese authors to have won this prestigious literary prize whose first winner was Sully Prodhomme.
ANSWER: Nobel Prize in Literature
19. This text's four principal nations include the Lamanites, who were cursed with dark skin. For 10 points each:
[10] Name this sacred text that Joseph Smith translated from Reformed Egyptian engravings on golden plates.
ANSWER: The Book of Mormon
[10] This son of Mormon and final prophet of the Nephites appeared to Smith as an angel and gave him the plates. ANSWER: Moroni
[10] In Third Nephi, this figure goes on a three-hour destroying spree that takes out the cities of Moroni and Jerusalem. In Islam, he is known as Isa ibn Maryam.
ANSWER: Jesus Christ [accept either]
20. Name these African lakes, for 10 points each.
[10] This lake, the largest in Africa, is the source of the White Nile and is named for a British queen.
ANSWER: Lake Victoria
[10] This second-deepest lake in the world is also the world's longest lake.
ANSWER: Lake Tanganyika
[10] This African Great Lake is located between Tanzania, Mozambique, and its namesake country. It was originally named Lake Nyasa by David Livingstone.
ANSWER: Lake Malawi
21. Name the following about a rivalry between a king of France and a Holy Roman Emperor, for 10 points each. [10] This king of France was captured at the Battle of Pavia in 1525. As part of the Treaty of Madrid he married Eleanor of Austria, the sister of the Holy Roman Emperor.
ANSWER: Francis I [or Francois I; prompt on Francis or Francois]
[10] This Holy Roman Emperor was the nemesis of Francis I during the Italian Wars. The Schmalkaldic League was formed to oppose him during the Protestant Reformation.
ANSWER: Charles V [or Charles I of Spain; or Carlos I; prompt on Charles or Carlos]
[10] At the Field of the Cloth of Gold, Francis I sought the help of this king of England who married Catherine of Aragon and Anne Boleyn, among others.
ANSWER: $\underline{\text { Henry VIII [prompt on Henry] }}$

