

TAILS: TAG Academic Introductory Level Set 2020-2021

Edited by Alistair Gray. Written by Jonathan Farner, Jaik Havlick, Georgia Leakey, Ketan Pamurthy, Akhil Peddikuppa, Jonathan Singer, Andrew Volney, Cooper Wilk, and Jisoo Yoo

Packet 8

1. **Joshua Chamberlain led the 20th Maine in this battle in a bayonet charge to capture Little Round Top. Pickett's Charge during this battle represents the farthest north Confederate troops reached. "A new nation, conceived in Liberty" was created (*)** "Four score and seven years ago" according to a speech made at the site of this battle. For ten points, name this 1863 Civil War battle after which Abraham Lincoln issued an "address".

ANSWER: Battle of **Gettysburg** [accept **Gettysburg** Address]

<US History - Singer>

1. This character visits Balnibarbi, a kingdom ruled from the floating island of Laputa, where he observes crazy experiments like softening marble to use in pillows and extracting sunbeams from cucumbers. For ten points each: [M] Name this character, who strives to fix a political divide between Lilliput and Blefuscu caused by a debate on which end of an egg a person should crack.

ANSWER: **Gulliver** [accept **Gulliver's Travels**]

[H] *Gulliver's Travels* was written by this author, who proposed that the poor of a certain country sell their children as food to the rich as a solution for economic troubles in his essay *A Modest Proposal*.

ANSWER: Jonathan **Swift**

[E] Swift was a satirist from this European country. James Joyce, another author from this country, wrote about people in its capital city in his collection *Dubliners*.

ANSWER: Republic of **Ireland**

<Mixed Literature - Yoo>

2. **A type of these objects that form primarily near the poles are named "nacreous". Mammatus and pileus are two types of these objects, and contrails are a man-made form created by jet engines. In the water cycle, these objects form after evaporation as water (*)** condenses in the sky. Types of these objects include stratus, cumulus, and cirrus. For ten points, name these usually-white masses of water vapor in the sky.

ANSWER: **clouds**

<Other Science - Pamurthy>

2. In Jainism, this concept is thought of as a physical substance that pollutes the soul when someone kills, lies, or steals. For ten points each:

[H] Name this concept in many schools of Hinduism and Buddhism. According to this concept, one's intents and actions affect one's current and future lives.

ANSWER: **karma**

[E] Jainism, Hinduism, and Buddhism were founded in this modern-day country. Many of the founding texts of religions from this Asian country were written in Sanskrit.

ANSWER: **India** [or Republic of **India** or **Bharatiya** Ganarajya]

[M] In Buddhism, *dhyāna* refers to this practice, taken up in Yoga exercises. This practice of focusing one's attention is often performed in the lotus position, with both hands extended on a crossed lap.

ANSWER: **meditation**

<Religion - Yoo>

3. **In a cold open in this series, a character cries “Save Bandit!” and tosses her cat into the ceiling panels. Another character in this series is given a job offer by Athlead but chooses to stay with his wife and his daughter Cece. A (*) beet farmer in this series is often pranked by a tall colleague at a paper company. Jim Halpert, Dwight Schrute, and Michael Scott feature in, for ten points, what mockumentary sitcom about Dunder-Mifflin Scranton?**

ANSWER: *The Office*

<Popular Culture - Yoo>

3. This scientist names a sensory receptor that senses changes in muscle tension. For ten points each:

[H] Name this Italian scientist who names a cell organelle that modifies and packages proteins into vesicles to be sent to their final destination.

ANSWER: Camillo Golgi

[M] Golgi also names a staining method that is used to visualize tissue made of these cells. These cells primarily found in the brain consist of axons and dendrites and are separated by synapses.

ANSWER: neuron or neurone or nerve cell

[E] The Golgi reaction was initially named after the fact that it stains neurons this color. This color is produced by the absence or complete absorption of light.

ANSWER: black

<Biology - Pamurthy>

4. **A character in this novel takes pills every morning after reporting his Stirrings during the morning dream-telling. In this novel, the Ceremony of Twelve assigns life’s work to children. This novel’s protagonist, who is a friend of Asher and Fiona, is taught to be a (*) Receiver of Memory by the title character and escapes his Community with his brother Gabriel. For ten points, name this dystopian novel about Jonas by Lois Lowry.**

ANSWER: *The Giver*

<Children’s Literature - Yoo>

4. While running to become governor of this state, a future president promised to “clean up the mess” at its state university’s original and flagship campus, though his actions partly led to the People’s Park protests. For ten points each:

[E] Name this US state currently led by Gavin Newsom, who lives just outside of its city of Sacramento.

ANSWER: California

[M] This governor of California later became the 40th president of the United States. This president fired thousands of striking air traffic controllers and created a missile defense program nicknamed “Star Wars”.

ANSWER: Ronald Wilson Reagan

[H] Reagan discussed “Star Wars,” his Strategic Defense Initiative, at the Geneva Summit with this last Soviet General Secretary. This leader’s policies of glasnost and perestroika foreshadowed the end of the Soviet Union.

ANSWER: Mikhail Sergeyevich Gorbachev

<US History - Singer>

5. **La Campanella is a work by Franz Liszt based on a concerto for this instrument. That concerto is by Niccolò Paganini, a virtuosic player of this instrument, who wrote a set of 24 Caprices for it. Antonio Vivaldi wrote a set of concerti for this instrument, four of which are called *The (*) Four Seasons*. In a string quartet, there are two of, for ten points, what smallest commonly-played string instrument?**

ANSWER: violin

<Auditory Fine Arts - Pamurthy>

5. After his death, the inventor of these objects was cremated and his ashes were molded into one. For ten points each:

[M] Name these toys once called Pluto Platters and Flyin' Saucers. In 1958, Wham-O bought the rights to these objects, which today are used in a game called Ultimate.

ANSWER: **frisbees** [accept **discs** or **flying discs**]

[E] Apocryphally, frisbees originated from the easily-throwable tins of the Frisbie Company, which made these desserts. These desserts are often made in flavors like pecan, pumpkin, or key lime.

ANSWER: **pies**

[H] In this sport, players must get their frisbees into goals in the least number of throws, often in relation to par. This sport features specialized, smaller frisbees, often on a course with nine or eighteen holes.

ANSWER: **disc golf** or **frisbee golf** or **folf** or **frolf**

<Other Academic - Pamurthy>

6. **This element is used with neon in the gain medium of a common type of laser used in barcode scanners. The nucleus of the most common isotope of this element is identical to an alpha particle, and this gas can be inhaled to make the pitch of one's voice (*) higher than normal due to its low density. This gas is often put into party balloons to make them lighter than air. For ten points, name this lightest noble gas, which has chemical symbol He.**

ANSWER: **helium**

<Chemistry - Farner>

6. Name these Mediterranean islands, for ten points each.

[M] The Knights Hospitaller ruled this island until they were kicked out by Ottoman sultan Suleiman the Magnificent. A massive statue of the sun god Helios on this island was called its "colossus."

ANSWER: **Rhodes**

[H] This island is the second most populous of the Balearic Islands, after Majorca (mah-YOR-kah). This island is a popular Spanish tourist destination, and is particularly known for its EDM scene.

ANSWER: **Ibiza**

[E] Archimedes lived on this island, where he legendarily defended its largest city, Syracuse, against Roman invaders using a heat ray. Mount Etna lies on this largest island in Italy.

ANSWER: **Sicily**

<World Geography - Havlick>

7. **VisiCalc helped catapult this company's first consumer product to great success. A later product by this company, the Lisa, was a commercial failure due to its high price. An Orwellian 1984 Super Bowl ad introduced this company's (*) Macintosh computer. Tim Cook took over as this company's CEO after the death of Steve Jobs in 2011. For ten points, name this company which makes Mac computers and the iPhone.**

ANSWER: **Apple** Inc.

<Other Academic - Yoo>

7. In a form of spectroscopy named for this type of electromagnetic radiation, molecules can be determined from the fingerprint region of their spectrographs. For ten points each:

[H] Name this type of radiation, which has wavelengths just longer than visible light. This type of radiation is commonly used in night-vision goggles and remote controls.

ANSWER: **infrared**

[M] Like infrared radiation, this type of radiation at the high wavelength end of the electromagnetic spectrum is non-ionizing. These waves are used to broadcast using the modulation schemes AM and FM.

ANSWER: **radio** waves

[E] This type of electromagnetic radiation has a wavelength between those of infrared radiation and radio waves. This type of radiation is often used to heat up food in a kitchen device named for them.

ANSWER: **microwaves**

<Chemistry - Pamurthy>

8. **This hero defeated the bandit Sinis (SIGH-nus), who killed victims by tying them between two pine trees and tearing them apart. This hero's father jumped into the sea after this hero forgot to switch his black sails with white ones on his way back from (*) Crete. Ariadne fell in love with and gave magical golden thread to this hero to allow him to navigate the Labyrinth. For ten points, what Greek hero slew the Minotaur?**

ANSWER: **Theseus**

<Mythology - Yoo>

8. This resident of Maycomb County, Alabama tells Scout that "You never really understand a person until you consider things from his point of view... until you climb into his skin and walk around in it." For ten points each:

[H] Name this character. This father of Jem and Scout defends a Black man from assault accusations by the white Ewell family during Tom Robinson's trial in a 1960 novel.

ANSWER: **Atticus** Finch [prompt on just Finch]

[M] Atticus appears in this novel by Harper Lee about racial injustice that centers on the Finch family. *Go Set a Watchman* was marketed as a sequel to this novel, but is now considered its first draft.

ANSWER: **To Kill a Mockingbird**

[E] *To Kill a Mockingbird* is set in the "Deep" part of this general region that includes states like Alabama and Mississippi. It is also a key part of the "Gothic" literature movement from this American region.

ANSWER: the **South** [accept **Deep South**; accept **Southern Gothic**]

<Long Fiction - Yoo>

9. **This body of water is the primary source of Beluga Caviar. The Absheron Peninsula, which juts into this body of water, contains the world's lowest-altitude capital city. That city, Baku, has grown rich off of the oil reserves in this body of water. The Volga and Ural Rivers empty into this largest (*) inland lake in the world. For ten points, what body of water lies north of Iran, between the Caucasus Mountains and Kazakhstan?**

ANSWER: **Caspian** Sea

<World Geography - Havlick>

9. One of these people named Harald Hardrada lost at the Battle of Stamford Bridge. For ten points each:
[E] Name these warrior seafarers that ravaged the coasts of Great Britain in the late first millennium. They hailed from Scandinavia and had kings such as Cnut (k'NOOT) and Sven Forkbeard.

ANSWER: **Vikings**

[H] Vikings traversed the oceans in these narrow oared boats. Accomplished warriors were sometimes buried or cremated with them.

ANSWER: **longships** [or **dragonships**]

[M] Vikings were the first to settle this modern-day country long-term. The Althing, which was founded in the year 930, is the parliament of this country, which is governed from Reykjavik.

ANSWER: **Iceland** [or Republic of **Iceland** or Lydveldid **Island**]

<European - Havlick>

10. **During these conflicts, one politician ended every speech by saying that an enemy city “must be destroyed”. That orator, Cato the Elder, traveled to Sicily during the first of these conflicts, accompanying the general Scipio Africanus. During the second of these conflicts, the Battle of (*) Zama saw the defeat of Hannibal Barca.** For ten points, name these conflicts which were fought by Rome and Carthage, for control of the Mediterranean.

ANSWER: **Punic** Wars

<Ancient History - Havlick>

10. In a story by this author, Hauchecome picks up the title “Piece of String” and dies of a broken heart after being accused of stealing someone’s wallet. For ten points each:

[H] Name this author of short stories like “Mademoiselle Fifi” and “Ball of Fat.” In another of his stories, Mathilde and her husband live in poverty for a decade, working to repay Madame Forestier (for-ES-tee-ay).

ANSWER: Guy de **Maupassant**

[E] That story about Mathilde by Maupassant is titled for one of these pieces of jewelry made of diamonds. At the end of that story, Madame Forestier reveals that this piece of jewelry had fake beads made of paste.

ANSWER: a **necklace** [accept “The **Necklace**”]

[M] Maupassant was under the tutelage of this other French author. This author depicted a girl with a seemingly pointless life in his story “A Simple Heart” and wrote of Emma’s infidelity in *Madame Bovary*.

ANSWER: Gustave **Flaubert**

<Short Fiction - Yoo>

11. **Six “rude mechanicals” in this play act out *Pyramus and Thisbe*. The male lead in that play within this play is Nick Bottom, whose head is turned into a donkey’s head by a character called Robin Goodfellow. This play centers around romantic conflict between (*) Helena, Lysander, Demetrius, and Hermia, as well as the trickster sprite Puck.** For ten points, name this Shakespeare comedy about the marriage of Theseus and Hippolyta.

ANSWER: *A **Midsummer Night’s Dream***

<Drama - Yoo>

11. For ten points each, answer some questions about ancient Greek mathematicians.

[M] Playfair's axiom is equivalent to this mathematician's fifth postulate, in the system of geometry named for him. This "father of geometry" wrote that "parallel" postulate in his *Elements*.

ANSWER: **Euclid** of Alexandria

[E] This mathematician's student Hippasus was supposedly drowned after discovering irrational numbers. This mathematician's theorem states that, for the side lengths of a right triangle, a squared plus b squared equals c squared.

ANSWER: **Pythagoras** of Samos

[H] This Greek mathematician was the first known person to calculate the circumference of the Earth. This mathematician also developed a "sieve" used to find prime numbers.

ANSWER: **Eratosthenes** of Cyrene

<Other Science - Pamurthy>

12. **This city contains the corn cob-shaped Marina Towers. The second tallest building in this city is known as the John Hancock Tower, and Anish Kapoor's bean-shaped Cloud Gate is a landmark in this city's Millennium Park. This city's tallest building, the Willis Tower, used to be called the (*) Sears Tower.** For ten points, what seat of Cook County is the most populous city in Illinois?

ANSWER: **Chicago**

<US Geography - Havlick>

12. During a coup, this leader committed suicide by AK-47 at the Palacio de La Moneda. For ten points each:

[H] Name this socialist leader, who was replaced by the far-right dictator Augusto Pinochet as a result of that coup.

ANSWER: Salvador **Allende**

[E] Salvador Allende was president of this country before his death. The capital of this long, thin South American country is Santiago.

ANSWER: **Chile**

[M] Allende was the first self-identified follower of this political thinker to be elected president of a Latin American democracy. This thinker co-wrote *The Communist Manifesto* with Friedrich Engels.

<World History - Volney>

13. **During this ruler's reign, universal male suffrage was enacted by the Second Reform Act. This ruler's prime ministers Gladstone and Disraeli were political rivals. After the death of her husband, Prince Albert, this ruler only ever wore black. In 1876, this ruler was given the title (*) Empress of India, in recognition of her vast colonial expansion of the British empire.** For ten points, name this English queen who ruled for most of the 19th century.

ANSWER: Queen **Victoria**

<European History - Gray/Havlick>

13. This post-World War II art movement developed out of New York and placed an emphasis on emotional expression, movement, and gestures. For ten points each,

[H] Name this art movement, whose artists included Willem de Kooning and Mark Rothko. Action painting and color field painting are styles within this movement.

ANSWER: **abstract expressionism**

[M] This abstract expressionist artist, known as “the Dripper,” used splatter-painting techniques on large horizontal canvases to produce paintings like *Autumn Rhythm*.

ANSWER: Jackson **Pollock**

[E] Jackson Pollock spent much of his time in this northeastern U.S. city, whose art museums include the MoMA, or the Museum of Modern Art, and the Met, or the Metropolitan Museum of Art.

ANSWER: **New York** City [or **NYC**]

<Visual Fine Arts - Leakey>

14. **Project Orion was a study of spacecraft intended to be propelled using these things. The doctrine of mutual assured destruction describes use of these things, which in America can only be used after authorization with a briefcase known as the (*) “football.”** The Enola Gay carried one of these things nicknamed “Little Boy,” which was dropped on the city of Hiroshima. For 10 points, name these explosive devices that use nuclear reactions.

ANSWER: **nuclear weapons** [or **nuclear bombs** or **hydrogen bombs** or **atomic bombs** or **atom bombs** or **A-bombs** or **nukes** or **nuclear warheads** or other logical equivalents; prompt on **bombs**]

<Other Academic - Pamurthy>

14. With Josef Stefan, this scientist names a law relating the power radiated from a blackbody to its temperature. For ten points each:

[H] Name this scientist who developed statistical mechanics and the H theorem. A constant named for this scientist is equal to the gas constant divided by Avogadro’s number, and his tombstone bears a thermodynamic equation.

ANSWER: Ludwig Eduard **Boltzmann**

[M] The equation on Boltzmann’s tombstone relates this quantity to the natural logarithm of the number of microstates. This measure of disorder of a system is always increasing in the universe.

ANSWER: **entropy**

[E] Boltzmann’s constant, along with many other constants in physics, is represented by this letter. A subscript of this letter under the letter E is used to represent kinetic energy, and it is also used to abbreviate Kelvins.

ANSWER: **k**

<Physics - Pamurthy>

15. **Disappearances of these organisms is thought to be caused by pathogens transmitted by Varroa mites, a phenomenon called colony collapse disorder. These organisms, the only insects to produce food eaten by humans, communicate using a waggle dance. These organisms in the genus (*) Apis have societies centered around queens.** For ten points, name these black and yellow insects that pollinate flowers and live in hives.

ANSWER: honey **bees**

<Biology - Pamurthy>

15. This soccer player has opened two fashion boutiques, along with co-designing a range of underwear and sock lines. For ten points each:

[M] Name this player, the current goals leader among active players and fourth in career all-time goals. This forward left Real Madrid in 2018 after nine years with the team.

ANSWER: Cristiano **Ronaldo** dos Santos Aveiro

[E] Ronaldo is the captain of this country's national team, where he was born on the island of Madeira. One of his fashion boutiques is located in his hometown of Madeira, and the other is located in this country's city of Lisbon.

ANSWER: **Portugal** [or **Portuguese** Republic or República **Portuguesa**]

[H] After his time with Manchester United and Real Madrid, Ronaldo left to play for this Italian team that competes in Serie A. Other players on this team include Paulo Dybala and Gianluigi Buffon.

ANSWER: **Juventus** Football Club [or **Juve**]

<Popular Culture - Pamurthy>

16. **The Nazirite vow requires that the person taking it abstain from consuming this product. On the shabbat, obligatory blessings called kiddush are made over this product. During the Passover Seder, everyone present drinks four cups of this substance. Along with the (*) host, a sacramental type of this substance is an element of the Eucharist.** For ten points, name this alcoholic drink made from fermented grape juice that is significant in Jewish and Christian traditions.

ANSWER: **wine** [prompt on alcohol; prompt on grapes with "What kind of drink is made with grapes?"]

<Religion - Yoo>

16. This composer wrote the music for musicals like *A Connecticut Yankee* and *Babes in Arms*. For ten points each:

[M] Name this composer who had a longtime partnership with lyricist Lorenz Hart. This composer collaborated on musicals like *Carousel* and *South Pacific* as part of a duo with Oscar Hammerstein.

ANSWER: Richard Charles **Rodgers**

[H] This Rodgers and Hammerstein musical features a rendition of Uncle Tom's Cabin and the song "Getting to Know You." This musical follows the story of a British teacher hired to tutor Thailand's royal children.

ANSWER: ***The King and I***

[E] This musical, the first written by Rodgers and Hammerstein together, tells of Laurey's courtship by rivals Curly and Jud. This musical is set in the title territory, which is now a state just north of Texas.

ANSWER: ***Oklahoma!***

<Other Fine Arts - Pamurthy>

17. **Railway terminals that this architect designed across the world include the Budapest Nyugati Station.**

After the previous engineer died, Auguste Bartholdi asked this architect to finish the metal framework of the Statue of Liberty. A spindly steel monument named for this architect was built for the 1889 (*) World's Fair and is located on the Champ de Mars. For ten points, give this namesake of an iconic Parisian *Tour*, or tower.

ANSWER: Gustave **Eiffel**

<Other Fine Arts - Pamurthy>

17. Friedrich Bessel discovered changes in the motion of this star, inferring its binary companion. For ten points each:

[M] Name this brightest star in the night sky. This main-sequence star found in Canis Major forms the Winter Triangle with Procyon and Betelgeuse and is often called the Dog Star.

ANSWER: **Sirius A** [or **Alpha Canis Majoris**]

[E] Sirius B, the binary companion of Sirius A, is this type of star. These stars that can come in black, brown, or white types are named for their small size.

ANSWER: **dwarf** star [accept white **dwarf**, brown **dwarf**, or black **dwarf**]

[H] While white dwarfs are located at the bottom left of this diagram, red and orange dwarfs can be found in its main sequence. This diagram plots the luminosities, stellar classifications, and temperatures of stars.

ANSWER: **H-R** Diagram [or **Hertzsprung-Russell** Diagram or **HRD**]

<Other Science - Pamurthy>

18. **The backstory of this author's universe of Eä (AY-ah) is described in *The Silmarillion*. In a novel by this author, Thorin Oakenshield is killed at the Battle of Five Armies after taking back the Arkenstone from the dragon (*) Smaug (SMAWG). This author's character Gollum calls the One Ring "my precious" and bites it off of Frodo Baggins' finger in Mordor. For 10 points, name this author of *The Hobbit* and *The Lord of the Rings*.**

ANSWER: J. R. R. **Tolkein** [or John Ronald Reuel **Tolkien**]

<Long Fiction - Yoo>

18. China harvests about a third of the world's supply of this crop. For ten points each:

[E] Name this crop, farmed in paddies and terraces. During the Song Dynasty, a strain of this crop called Champa helped lead to a population boom.

ANSWER: **rice** [accept **mǐ** or **dào mǐ**]

[M] The ancient Liangzhu culture farmed rice around this Chinese river, whose drainage basin is home to approximately one third of China's population. This river is spanned by the Three Gorges Dam.

ANSWER: **Yangtze** River [or **Yangzi**]

[H] Due to rice being a staple crop, a poor rice season led to widespread famine in the 1850s during this Chinese dynasty. This last Chinese dynasty faced the Taiping Rebellion partly as a result of that famine.

ANSWER: **Qing** Dynasty

<Ancient History - Havlick>

19. **Charged particles exceeding this quantity cause the blue glow around underwater nuclear reactors known as Cherenkov (chuh-RENG-kawf) radiation. The ratio of this quantity in a vacuum to this quantity in a medium is that medium's index of refraction. Energy equals mass times (*) this quantity squared. For ten points, name this speed, symbolized c , which is the universe's "speed limit" and the speed at which photons travel.**

ANSWER: **speed of light** [accept **c** before mention]

<Physics - Pamurthy>

19. This state's five national parks include Arches, Zion, and Bryce Canyon, which are all in desert canyonland. For ten points each,

[E] Name this Western state with great geographical diversity whose capital is Salt Lake City.

ANSWER: **Utah**

[H] A prehistoric lake of this name left exceptionally flat salt flats in Northwestern Utah which share the same name. Those salt flats of this name are the site of many land-speed records.

ANSWER: **Bonneville** [or Lake **Bonneville** or the **Bonneville** Salt Flats]

[M] Park City and Deer Valley are sites in northeastern Utah for this sport. Utah's suitability for this sport is part of the reason Salt Lake City was awarded the 2002 Olympics.

ANSWER: **skiing**

<US Geography - Gray>

20. **This country's President Ashraf Ghani belongs to the Pashtun tribe. The Mujahideen, which fought against a Soviet invasion in this country, enlisted Osama bin Laden before he founded Al-Qaeda. Large areas of this country are controlled by the (*) Taliban.** After the September 11th terrorist attacks, the United States invaded, for ten points, what country governed from the capital of Kabul?

ANSWER: Islamic Republic of **Afghanistan**

<World History - Havlick>

20. A central deity in this civilization whose name translates as "Smoking Mirror" lost his foot during a battle against the Earth Monster. For ten points each:

[M] Name this Mesoamerican civilization conquered by Hernán Cortés in the early 16th century. This civilization with capital at Tenochtitlan made sacrifices to deities like Tezcatlipoca and Xipe Totec (SHEEP-uh TOH-tek).

ANSWER: **Aztecs**

[E] After the Aztec city of Tenochtitlan was sieged and destroyed, this North American country's capital was built in its place. An eagle on a cactus on this country's red, white, and green flag refers to the Aztec founding myth.

ANSWER: **Mexico**

[H] This central deity in Aztec mythology travelled to the underworld and stole bones that became the first people. This feathered serpent deity's battles with his brother Tezcatlipoca created and destroyed the four ages.

ANSWER: **Quetzalcoatl**

<Mythology - Yoo>