## TAILS: TAG Academic Introductory Level Set 2020-2021

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## Packet 6

1. One player for this team won the first three NBA three-point contests. Red Auerbach coached this team to 9 championships in the 1950s and 60s, a period in which it was led by such players as John Havlicek and Bill Russell. More recent players for this team include Paul (\*) Pierce and Kevin Garnett. Kemba Walker and Jayson Tatum are currently star players for, for ten points, what NBA team from Boston?

ANSWER: Boston Celtics [accept Boston before mention]

<Popular Culture - Pamurthy>

- 1. Construction of this cathedral began under Bishop Maurice de Sully, though there is debate over whether Sully or Pope Alexander III laid its cornerstone. For ten points each:
- [E] Name this cathedral in Paris which features enormous rose windows and was one of the first cathedrals to feature flying buttresses. This cathedral suffered extensive damages due to a 2019 fire.

ANSWER: **Notre-Dame** de Paris

[H] Notre-Dame was built in this style of architecture, which developed from Romanesque architecture and was succeeded by Renaissance architecture. This style is marked by rib vaults, flying buttresses, and pointed arches.

ANSWER: **Gothic** architecture [prompt on "pointed architecture"]

[M] Notre-Dame featured numerous examples of these sculptures which were used to divide rainwater into thin streams to minimize potential damage. These sculptures often depict demonic figures.

ANSWER: gargoyle [prompt on grotesque or chimera]

<Other Fine Arts - Pamurthy>

2. The first asteroid to be discovered is now classified as one of these objects, because it does not clear its neighboring region. Haumea and Makemake (MAH-kay-MAH-kay) are two of these objects found in the Kuiper (KYE-per) Belt, and Eris is the second-largest known one of these objects. One of these objects discovered by Clyde Tombaugh was (\*) reclassified in 2006. For ten points, name these astronomical objects, like Pluto, which are smaller than planets.

ANSWER: **dwarf** planets [prompt on <u>planets</u>]

<Other Science - Pamurthy>

2. A character in this TV series is the puppet master and Akatsuki (AA-cut-suu-ki) member Sasori of the Red Sand. For ten points each,

[M] Name this television show, whose main character has a Rasengan (RAH-sing-gone) attack and the ability to create shadow clones.

ANSWER: **Naruto** [accept **Naruto: Shippuden**]

[H] This character from Naruto is a member of a clan with a hereditary sight ability, the Sharingan. His older brother, Itachi, massacred that clan on the orders of Danzo (DON-zo).

Answer Sasuke Uchiha [prompt on Uchiha]

[E] Naruto is one of this Japanese type of cartoon. Other examples of this type of show include Dragon Ball Z and Demon Slayer.

ANSWER: anime

<Popular Culture - Volney>

3. This ruler's sister, Arsinoe, was killed in front of the Temple of Artemis at Ephesus. Pothinus helped Ptolemy XIII briefly usurp the throne from this ruler, who had a son named Cesarean. This ruler went into hiding after her forces lost at the Battle of Actium, and she would later commit suicide after the death of her lover (\*) Marc Antony. For ten points, name this last female pharaoh of Egypt.

ANSWER: Cleopatra

<Ancient History - Peddikuppa>

- 3. Members of this religious sect belong to a denomination formerly known as the Religious Society of Friends. For ten points each:
- [H] Name this religious denomination whose adherents believe in an "inner light," a metaphor for the inward light of God. William Penn was a wealthy member of this religious denomination.

ANSWER: **Quaker**s [prompt on Society of <u>Friends</u>]

[E] William Penn founded this modern-day state after Quakers were persecuted by the Puritans of the Massachusetts Bay colony. Quakers founded many small colleges in this state like Bryn Mawr and Swarthmore, both of which are just outside of Philadelphia.

ANSWER: Pennsylvania

[M] Some Quakers profess the universal priesthood, a belief that discards the idea of a separate class of priests. That belief comes from a verse in the First Epistle of this apostle, who is considered the first Pope.

ANSWER: <u>Peter</u> <Religion - Yoo>

4. In a story by this author, the fascist Deutscher (DOY-scher) wins an election instead of Keith after Eckels steps on a butterfly during a Time Safari. This author of "A Sound of Thunder" wrote a novel in which the main character's parlor wall-loving wife Mildred rats him out to the (\*) fireman Captain Beatty. Guy Montag is threatened with a flamethrower for not burning illegal books in, for ten points, what American author's *Fahrenheit* 451?

ANSWER: Ray Douglas **Bradbury** 

<Mixed Literature - Yoo>

4. Early in his career, this tycoon worked under Thomas Gibbons to dismantle the steamboat monopoly held by Aaron Ogden. For ten points each:

[H] Name this business magnate who became a steamboat entrepreneur before feuding with James Fisk and Jay Gould in a different industry. This entrepreneur was nicknamed "The Commodore."

ANSWER: Cornelius Vanderbilt

[M] Gibbons and Vanderbilt competed with Ogden for control of the waters of New York, especially this river. The very first commercial steamboat trip took passengers from New York City to Albany on this river.

ANSWER: **Hudson** River

[E] After working with steamboats, Vanderbilt rose to the top of the industry making networks of these tracks across the nation. A major event in that industry's history was the construction of a Transcontinental one.

ANSWER: **rail**road industry [prompt on train tracks]

<US History - Pamurthy>

5. This man sculpted a horned Moses along with a dying and a rebellious slave for the tomb of Pope Julius II. A marble sculpture by this man located in the Palazzo Vecchio (VEK-yo) is depicted in contrapposto and depicts a nude David. He also depicted himself as the flayed skin of St. Bartholomew in his mural *The* (\*) *Last Judgement*. For ten points, name this Italian Renaissance artist who painted the ceiling of the Sistine Chapel.

ANSWER: Michelangelo [or Michelangelo di Lodovico Buonarroti Simoni]

<Visual Fine Arts - Pamurthy>

- 5. Petioles connect these structures to the stem. For ten points each:
- [E] Name these structures that contain high amounts of chlorophyll, a key pigment to photosynthesis which takes place primarily in these structures. These structures are usually green, but change colors during the Fall.

ANSWER: leaves

[M] Leaves generally have one primary and many branching secondary examples of these structures which, as the vascular tissue of the leaf, transport water and nutrients in it.

ANSWER: veins

[H] Leaves are often covered by one of these substances for protection. These layers of waxy coverings minimize water loss from leaves.

ANSWER: <u>cuticle</u> <Biology - Pamurthy>

6. This ruler used the Yassa law code and organized the Yam system for communication across his empire. This ruler destroyed the Khwarezmian (kah-REZ-mee-un) Empire after the envoys he sent to negotiate were killed. Subotai was this man's most trusted general. Successor states to this man's empire include the (\*) Golden Horde and Yuan China. For ten points, who was the founder and first Great Khan of the Mongol Empire? ANSWER: Genghis Khan [accept Genghis after "Khan" is read; accept Temujin; accept Temijun Borjigin; accept Genghis Emperor; prompt on Khan]

<World History - Peddikuppa>

6. In 2015, the official name of this mountain was changed from that of a former president.

[M] For ten points, name this tallest mountain in the United States. Its now-current name means "the High One" and is of Athabaskan origin.

ANSWER: **Denali** [accept Mount **McKinley**]

[E] Denali is located in this largest U.S. state, which is separated from Russia by the Bering Strait.

ANSWER: Alaska

[H] This island chain extends from the southwest of Alaska towards Russia, forming the northernmost portion of the Pacific Ring of Fire. Vitus Bering is credited with discovering this island chain.

ANSWER: <u>Aleutian</u> Islands <US Geography - Volney>

7. This river joins with the Rio Negro at the Meeting of the Waters. Iquitos (ee-KEE-tohs), one of the most inland ports in the world, sits on the banks of this river. The city of Manaus also lies on this river, and is located in a state named for it. This river has the highest discharge volume, and is (\*) second-longest, in the world. For ten points, what very long river in Brazil is named for a group of Greek-warrior women?

ANSWER: <u>Amazon</u> River <World Geography - Havlick>

- 7. One of these animals spots a bundle of ripe fruit on a vine trained along the branches of a tall tree. For ten points each:
- [H] Name this animal that, in a story, jumps repeatedly to try and reach a ripe bunch of grapes. It misses repeatedly until finally it gives up, claiming that it did not want sour grapes anyway.

ANSWER: a **fox** [accept "The **Fox and the Grapes**"]

[M] "The Fox and the Grapes" is included in a collection of fables written by this ancient Greek slave. Other well-known stories attributed to him include "The Ant and the Grasshopper" and "The Frog and the Ox."

ANSWER: Aesop [accept Aesop's Fables, accept Aesopica]

[E] Aesop's most often retold story is perhaps one about these *two* animals. One of these animals challenges the other to a race and ends up winning when the other takes a nap midway through.

ANSWER: "The <u>Tortoise</u> and the <u>Hare</u>" [accept <u>turtle</u> for Tortoise and <u>rabbit</u> or other obvious synonyms for Hare]

<Short Fiction - Yoo>

8. Alpha particles were shot at a thin layer of this element in an Ernest Rutherford experiment that proved the existence of the atomic nucleus. This element combines with silver to form the alloy electrum, and it is the most malleable and ductile metal. Since (\*) iron pyrite looks very similar to this element, it is nicknamed "fool's" this element. For ten points, name this element whose symbol is Au, a precious yellow metal.

ANSWER: gold

<Chemistry - Pamurthy>

- 8. This politician succeeded Condoleezza Rice in a US Cabinet post after her defeat in the 2008 Democratic primary. For ten points each:
- [E] Name this political figure whose memoir What Happened describes her loss in the 2016 Presidential Election.

ANSWER: Hillary **Clinton** 

[M] Before running for the presidency, Clinton served in this cabinet position. Under her tenure, Clinton helped organize sanctions against Iran to curtail its nuclear program.

ANSWER: Secretary of State

[H] During Clinton's time as Secretary of State, an attack on a diplomatic outpost in this city led to the death of Chris Stevens, US ambassador to Libya.

ANSWER: Benghazi

<Other Academic - Singer>

9. In a novella by this author, Moses claims that it is Sunday seven days a week at Sugar Candy Mountain, and a revolutionary song called "Beasts of England" inspires the pigs Snowball and Napoleon. In another novel by this author, the (\*) Ministry of Love employs the Thought Police and tortures Julia and Winston in Room 101 in a dystopian society overseen by Big Brother. For ten points, name this English author of *Animal Farm* and 1984.

ANSWER: George Orwell [accept Eric Arthur Blair]

<Long Fiction - Yoo>

- 9. It is said that Rome tilled the ground around Carthage with this resource, so the city would never thrive again. For ten points each:
- [E] Name this resource. The word "salary" comes from money paid to Roman soldiers to buy this resource, which was valuable for its ability to preserve and flavor food.

ANSWER: **salt** [accept **sodium chloride** or **NaCl**]

[M] Romans adopted the use of this other kind of currency from the Greeks. Early Roman forms of these things included the Sestertius and Follis, which were often minted with the current Emperor's head on one side.

ANSWER: coins

[H] Roman coins lost value during the Crisis of the Third Century due to this economic phenomenon. Emperor Diocletian minted a new coin, the Solidus, to counteract this phenomenon.

ANSWER: inflation

<Ancient History - Havlick>

10. The two major schools of this religion are Theravada and Mahayana. The founder of this religion left his role as a prince when he encountered the Four Sights: an old man, a sick man, a dead man, and a holy man. That founder developed the Four (\*) Noble Truths, one of which is following the Eightfold Path. Siddhartha Gautama founded, for ten points, what meditative religion that seeks Enlightenment?

ANSWER: **Buddhism** < Religion - Pamurthy>

- 10. Ogives are alternating light and dark bands on the surfaces of these objects. For ten points each:
- [M] Name these objects whose movement can form debris that is later deposited in moraines. These objects lose mass via ablation and calving, the latter of which results in icebergs breaking off of their edges.

ANSWER: glaciers

[H] These long, narrow inlets between cliffs are created by glaciers. The term for these features comes from Old Norse because they are commonly found in Scandinavia, Norway in particular.

ANSWER: fiord

[E] Tarns are examples of these bodies of water formed in cirques. These bodies of water are surrounded by land, other than the rivers that drain or feed them, and "Great" examples of these bodies of water include Erie and Superior.

ANSWER: lakes

<Other Science - Pamurthy>

11. The small-angle approximation states that if the input to this function is small, it is approximately equal to this function's output. This function gives the y-coordinate of a point rotated around the unit circle. A law named for this function states that, for a triangle, the ratio of a (\*) side length to this function of the opposite angle is the same for each side. For ten points, name this trigonometric function calculated "opposite over hypotenuse".

ANSWER: sine

<Other Science - Wilk>

- 11. The first subseries of this novel series, *The Prophecies Begin*, centers on Fireheart's discovery of Tigerstar's treachery and the battle against BloodClan. For ten points each:
- [M] Name this series of children's novels about the adventures of four different Clans. This series is written by multiple people under the collective pseudonym of Erin Hunter.

ANSWER: Warriors

[E] The Clans in the *Warriors* series are made up of wild groups of these animals. Domesticated animals of this type owned by "Two-legs" are called "kittypets" by the Clans.

ANSWER: **cat**s [accept logical equivalents like **feline**s; prompt on <u>kitties</u> or <u>kitten</u>s]

[H] The four Clans' belief system is based on this other Clan, which is supposedly made up of the Clans' deceased ancestors. Medicine cats in the *Warriors* series serve as a channel between the four Clans and this spiritual Clan.

ANSWER: StarClan

<Children's Literature - Yoo>

12. A player of this instrument, who composed A Night in Tunisia and Salt Peanuts, was Dizzy Gillespie. Another player of this instrument composed songs such as All Blues and So What for his album Kind of Blue. A player of this instrument sings that he sees "trees of green" in the first recording of (\*) What a Wonderful World. For ten points, Miles Davis and Louis (loo-EE) Armstrong played what three-valved brass instrument? ANSWER: trumpet

<Other Fine Arts - Pamurthy>

- 12. Leon Trotsky negotiated the Treaty of Brest-Litovsk to pull this country out of World War I. For ten points each:
- [E] Name this country that was in the midst of overthrowing its monarchy in St. Petersburg when the treaty was signed. The Mensheviks and Bolsheviks fought for control of this country throughout 1917.

ANSWER: Russia

[M] This man led the Bolsheviks in the Russian Revolution and became the first leader of the USSR. St. Petersburg would be renamed after him upon his death.

ANSWER: Vladimir Lenin [accept Valdimir Ilyich Ulyanov; accept Leningrad]

[H] This last Tsar of Russia and ruling member of the house of Romanov was overthrown in the Russian Revolution. He was murdered along with his entire family in 1918 by Bolsheviks in the Ipatiev House of Yekaterinburg.

ANSWER: Nicholas II [prompt on Nicholas or Nikolai]

<European History - Havlick>

13. This initiative's participants were scrutinized by the Venona project, which discovered the espionage of Theodore Hall and Klaus Fuchs (fooks). Sites like Hanford and Oak Ridge were used for fuel enrichment during this effort. J. Robert Oppenheimer directed this effort, whose successful culmination was the (\*)

Trinity Test, the first detonation of a nuclear device. For ten points, what US World War II project created the atomic bomb?

ANSWER: <u>Manhattan Project</u> [prompt on equivalents to <u>the United States developing an nuclear bomb</u> by asking "What is the name of the project?"]

<US History - Volney>

- 13. At an early age, this woman enrolled in an all-boys school with the hopes of being an engineer, and was strongly discouraged when she applied to a medical school in Rome. For ten points each:
- [H] Name this woman who went on to graduate with honors and become a physician. This Italian woman names an education philosophy used in schools that view children as eager learners and stress discovery learning.

ANSWER: Maria Tecla Artemesia Montessori

[E] Montessori education is most commonly used with students in this grade level and below. This grade level, which comes from a German word, usually comes before first grade.

ANSWER: Kindergarten

[M] Most Kindergarten teachers use phonics to teach children this faculty. This faculty is thought to be best acquired during a critical period at a young age

ANSWER: <u>language</u> [accept <u>speaking</u> or <u>reading</u> a language]

<Other Academic - Pamurthy>

14. The Planck (plonk) epoch immediately followed this event. Evidence for this event includes the CMBR and Hubble's law, which shows that galaxies are moving apart. Following this event, protons and neutrons (\*) fused to form atoms like deuterium and helium. For ten points, name this event around 14 billion years ago in which the universe expanded from a single point.

ANSWER: the **Big Bang** [prompt on <u>creation of the universe</u> or the <u>beginning of time</u> or logical equivalents] <Physics - Pamurthy>

14. A character in this novel accidentally kills a puppy given to him by Slim by stroking it too hard. For ten points each:

[H] Name this novel about the mentally disabled migrant worker Lennie, who one day dreams of owning a rabbit farm, and his friend George, who shoots Lennie when he breaks the neck of Curley's wife.

ANSWER: Of Mice and Men

[M] This American author wrote *Of Mice and Men*. He also wrote a novel about the Joads, a family of "Okies" who travel to California in search of a job during the Dust Bowl.

ANSWER: John Steinbeck

[E] Steinbeck set both his novels *Of Mice and Men* and *The Grapes of Wrath* during this economic downturn in the early 20th century.

ANSWER: The **Great Depression** [prompt on <u>Dust Bowl</u>]

<Long Fiction - Yoo>

15. In a work by this author, Alcibiades (AAL-sib-ee-AH-deez) and Aristophanes (ah-ruh-STAH-fuh-neez) are invited to give speeches about the nature of love at a banquet. This philosopher wrote that the ideal leaders of a city-state are philosopher-kings and described the Allegory of the Cave in one of his (\*) Socratic dialogues. For ten points, name this ancient Greek philosopher who wrote the *Symposium* and the *Republic*.

ANSWER: Plato

<Other Academic - Yoo>

- 15. In the metallic form of these interactions, atoms experience attractive forces due to a cloud of free, delocalized electrons. For ten points each:
- [E] Name these interactions which are used to join two atoms. When one of them occurs between a metal and a nonmetal, they can involve transfer of electrons in the "ionic" type.

ANSWER: **bond**s or **bond**ing [accept ionic **bonds** or metallic **bonds**]

[M] In covalent bonds, electrons are shared between the atoms, but when there is a large difference in electronegativity the bond can have this property. The covalent bonds found in water have this property.

ANSWER: polar bonds [accept polarity or strongly polar]

[H] While covalent bonds occur between individual atoms, these interactions occur between larger molecules and are determined largely by the polarity and location of electrons around the molecules involved. These interactions include both induced dipole and hydrogen bonding interactions.

ANSWER: <u>intermolecular</u> forces or attractions [accept <u>van der Waals</u> forces or <u>IMF's</u>]

< Chemistry - Farner>

16. The nymph Clytie was turned into one of these things after watching Helios cross the sky for nine days without food or drink. After Adonis died from being attacked by a wild boar, one of these things called the anemone was created. One of these things appeared where Narcissus fell in love with his reflection and drowned. The death of (\*) Hyacinthus caused the blooming of a type of, for ten points, what type of plant part with petals?

ANSWER: **flower**s [accept **heliotrope** or **turnsole** or **daffodil** or **jonquil**]

<Mythology - Yoo>

16. Following the death of Muhammad, his followers' forces engaged in rapid military expansion from the Arabian Peninsula. For ten points each:

[E] Muhammed's followers were the first practitioners of this religion. Its kingdoms included the Rashidun and Ummayad Caliphates.

ANSWER: Islam

[M] The Rashidun Caliphate's first capital city was this second-holiest city in Islam, which lies about 300 miles north of Mecca. Muhammad is buried in this city.

ANSWER: Medina

[H] The Umayyad Caliphate would later be expelled by the Abbasids, but it maintained its rule on this peninsula. Christians on this peninsula would later lead a campaign against the Muslims called the Reconquista.

ANSWER: **Iberia**n Peninsula <World History - Havlick>

17. In contrast with Thalia, Melpomene (mel-POM-eh-nee) is the muse of this genre. The only complete trilogy in the Athenian type of this genre is the *Oresteia* by Aeschylus. Aristotle's *Poetics* uses the term "catharsis" to describe the effect of this genre on the audience. (\*) *King Lear*, *Othello*, and *Macbeth* are examples of this genre of plays based on human suffering. For ten points, name this genre that is represented by a namesake sad-looking mask and is contrasted with comedies.

ANSWER: **tragedy** [accept **tragedies**; prompt on <u>Greek plays</u>; prompt on <u>plays</u> alone before mention] <Drama - Yoo>

- 17. Diopters (DYE-op-terz) measure the strength of mirrors and these other devices. For ten points each:
- [E] Name these devices, typically made of glass or plastic, that focus or disperse light. Common examples of these devices are found in cameras and in glasses.

ANSWER: lenses

[M] Lenses work by means of this process, in which waves traveling between media change direction. This process is the reason why objects seem to bend when placed partly in water, and is contrasted with reflection.

**ANSWER:** refraction

[H] This optical law relates the angles of incidence to indices of refraction and so can be used to determine how bent objects placed in water appear.

ANSWER: **Snell**'s Law < Physics - Pamurthy>

18. The first one of these things to be discovered causes discoloration in leaves and was thus called "tobacco mosaic." These things can reproduce using the lysogenic or lytic cycles, and ones with the prefix retro- insert a portion of their genome into the host cell's. These things can only (\*) replicate in the living cells of a separate organism. For ten points, name this class of infectious agents that includes HIV and a "corona" subtype.

ANSWER: <u>virus</u> <Biology - Pamurthy>

- 18. Answer some questions about Central European capital cities, for ten points each:
- [E] This city was the site of two Ottoman Sieges and a charge of winged hussars. Schonbrunn Palace, the seat of the Habsburg Dynasty, is located outside of this capital city of Austria.

ANSWER: Vienna

[M] Bratislava, the capital of this country, lies just east of Vienna. The Velvet Divorce of 1993 saw this country split from the Czech Republic.

ANSWER: Slovakia [accept Slovak Republic]

[H] Both Bratislava and Vienna lie on this European river, which also flows through two other European capital cities: Budapest and Belgrade. This river originates in the Black forest and empties into the Black Sea.

ANSWER: <u>**Danube</u>** River <World Geography - Havlick></u>

19. Three weeks prior to this battle, its losing commander had defeated Harald Hardrada at the Battle of Stamford Bridge. That losing commander in this battle was Harold Godwinson, the son-in-law of the dead king Edward the Confessor. A scene depicting this battle is the culmination of the Bayeux Tapestry and was the end of (\*) Saxon rule in England. For ten points, William the Conqueror won what 1066 battle that began the Norman Conquest?

ANSWER: Battle of **Hastings** <European History - Havlick>

- 19. This man composed a Cello Concerto in E minor that was famously performed by Jacqueline du Pré. For ten points each,
- [H] Name this English composer who included sections called "Ysobel" and "Nimrod" in his *Enigma Variations*, which he dedicated to his "friends pictured within." He also composed *Pomp and Circumstance*.

ANSWER: Edward **Elgar** 

[E] Elgar's *Pomp and Circumstance* is a collection of pieces in this genre, the first of which is often played at graduations. This genre of music is often played by military bands accompanied with walking soldiers.

ANSWER: march

[M] John Philip Sousa, known as the "March King," aided in the development of one of these instruments that wraps around the musician's body. These instruments are the largest and lowest-pitched brass instruments.

ANSWER: **tuba** [accept **helicon** or **sousaphone**]

<Auditory Fine Arts - Leakey>

20. The Atchafalaya River branches off this other river. The 1928 Flood Control Act was passed in response to the worst flood in US history, which occurred on this body of water. This river briefly flowed backwards in 1812 due to an earthquake near New Madrid, Missouri. This river passes directly east of the Gateway Arch in (\*) St. Louis and ends near New Orleans. For ten points, name this longest river in the United States.

ANSWER: Mississippi River

<US Geography - Volney>

- 20. This creature is an offspring of Typhon and Echidna, making it a sibling of such beasts as Cerberus and the Hydra. For ten points each:
- [H] Name this monster from Greek mythology. This part-lion, part-goat, and part-snake creature was slain at the command of King Iobates (eye-OBB-uh-teez) of Lycia after terrorizing his lands.

## ANSWER: Chimera

[M] This hero is credited with the slaying of the Chimera and once defeated the Amazons by dropping boulders on them. After sleeping in a temple to Athena, this hero met his most famous steed, a flying horse.

## ANSWER: Bellerophon

[E] This was the name of Bellerophon's (beh-LAIR-uh-fonz) steed. This winged horse was stung by a gadfly sent by Zeus when an egotistic Bellerophon tried to fly to Mount Olympus.

ANSWER: <u>Pegasus</u> <Mythology - Yoo>