

2022 KICKOFF Novice

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Packet 10N: "In your guts, you know he's nuts."

Tossups

1. In one story by this author, a man is told that his wife died "in a fit of passion" after finding people playing nine pins in a tavern. In another story by this author, a horse named Gunpowder refuses to cross a bridge. A character created by this author discovers he has fallen asleep for 20 years. This author of (*) "Rip Van Winkle" wrote about discovering the only remains of the love rival of Brom Bones in a smashed pumpkin and a hat. For 10 points, name this author, who wrote about Ichabod Crane in "The Legend of Sleepy Hollow."

ANSWER: Washington Irving
<Wang, American Literature>

2. One anchor for this company, who scored negative \$4500 in an oft-mocked 2009 Jeopardy game, runs the show "The Situation Room." This company's "plus" streaming service shut down after just one month. (*) Wolf Blitzer and Brian Stelter are employees of this company, which formerly employed Don Lemon. For 10 points, name this company, whose motto is "The Most Trusted Name in News," which was founded by Ted Turner.

ANSWER: CNN [or CNN plus]
<Riley, Current Events>

3. The harmonic mean of a set of numbers equals n divided by the sum of this function applied to each number. This function equals the derivative of the natural log. The graph of this function forms a hyperbola in the first and third quadrants, and has (*) asymptotes at the x and y -axes. For 10 points, name this function, also known as the multiplicative inverse, which for a number x equals 1 over x .

ANSWER: reciprocal [or inverse before it is read; or 1 over x before it is read]
<Wu, Math>

4. In Bahai, the Nineteen Day Fast ends on one of these holidays, called Nowruz. On one of these holidays, which occurs fifteen days before the Lantern Festival, children are given red envelopes filled with money. A Jewish one of these holidays is the first of the (*) High Holy Days and takes place nine days before Yom Kippur. For 10 points, Rosh Hashanah is what type of holiday, which falls on January 1st in the Gregorian Calendar?

ANSWER: New Year's Day [accept Nowruz until it is read, accept Chinese New Year; accept Lunar New Year; accept Rosh Hashanah until it is read]
<Palavajjhala, Religion>

5. This practice was controlled by wealthy Basque merchants at Grand Banks in Newfoundland. The Magna Carta outlawed the use of weirs in this practice in England. One war over this practice ended after the UNCLOS defined Exclusive Economic Zones as within a range of (*) 200 nautical miles. Iceland and England fought a series of late 20th century “wars” over this practice in the North Sea. For 10 points, name this practice, which often yields animals like cod.

ANSWER: fishing

<Riley, European History>

6. A stream of electrons moving by a series of cavity resonators generates this kind of radiation in a cavity magnetron. This radiation is commonly used to induce dielectric heating in substances with high water content. Metals with fine points produce (*) sparks when exposed to this kind of radiation. This radiation lies between radio and infrared waves. For 10 points, name this radiation, which is used by a kitchen appliance of the same name to quickly heat food.

ANSWER: microwave

<Wu, Physics>

7. The protagonist of this novel compares the robe of one love interest to a cast-off cicada shell. After arguing with Lady Rokujo, the daughter of the Minister of the Left suffers a seizure in this novel. This novel’s Uji chapters detail events after the death of the protagonist, which is indicated by a (*) blank chapter titled “Vanished into the Clouds.” The title husband of Lady Aoi seduces his stepmother Lady Fujitsubo in this novel. For 10 points, name this Heian Era novel by Lady Murasaki Shikibu.

ANSWER: *The Tale of Genji* [or *Genji Monogatari*]

<Ganguli, World Literature>

8. A Paul Gonsalves saxophone solo on this man’s “Diminuendo and Crescendo in Blue” at the 1956 Newport Jazz Festival helped revive his career. To “parallel to the history of the Negro in America,” this man composed *Black, Brown, and Beige*. This frequent performer at the Cotton Club composed (*) “Mood Indigo.” Billy Strayhorn and this man collaborated on a song about “the quickest way to Harlem.” For 10 points, name this jazz pianist of “Take the A Train,” who has a royal name.

ANSWER: Duke Ellington [or Edward Kennedy Ellington]

<Mundhe, Other Fine Arts>

9. DNA testing of this man’s mother, “The Younger Lady,” in KV35 proved this man was born from an incestuous marriage. Arthur Conan Doyle suggested Lord Carnavon’s death was caused by “elementals” produced by this man’s priests. Howard Carter discovered this man and his (*) gold death mask in the Valley of the Kings in Thebes. For 10 points, name this pharaoh who died young, and whose tomb was discovered remarkably intact.

ANSWER: King Tutankhamun

<Riley, Ancient History>

10. **Richard E. Grant plays this character in a scene where he tricks the monster Alioth with a hologram of his home. A “Kid” version of this character was sent to the Void after killing his brother. This character’s variants, such as Sylvie, appear in a TV series centered around the (*) TVA. This character tells a Titan that he will “never be a God” before being murdered by Thanos. For 10 points, name this character primarily played by Tom Hiddleston, a trickster god from Asgard who names a 2021 Marvel TV series.**

ANSWER: Loki [accept any of Loki’s variants, such as Sylvie, Classic Loki, or Kid Loki before they are mentioned in the question] <Sareddy, Pop Culture>

11. **The U3 measure of this phenomenon factors in “discouraged” people. A one percent increase in this phenomenon causes a two percent decrease in GDP by Okun’s law. This phenomenon and inflation are inversely related, according to the Phillips Curve. The (*) structural form of this phenomenon may rise due to automation. For 10 points, name this phenomenon where people actively seeking work are not currently working.**

ANSWER: unemployment [accept unemployment rate; or structural unemployment; or cyclical unemployment] <Palavajjahala, Social Science>

12. **This empire, whose history is recorded in the Mendoza Codex, built artificial islands called *chinampas* for agriculture. This empire waged ritual Flower Wars against neighbors, such as Cholula and Tlaxcala. This Nahuatl-speaking empire had success against invaders on (*) La Noche Triste, but their capital was captured by Hernan Cortes in 1521. For 10 points, name this Mexican empire ruled by Montezuma, which was centered on Tenochtitlan.**

ANSWER: Aztec Empire [or the Triple Alliance; or Excan Tlahtoloyan] <Riley, World History>

13. **In a novel from this country, the protagonist falls in love with the child prodigy Kathy Volkov. One author from this country wrote about a bet over transporting a glass church in his novel *Oscar and Lucinda*. Another author wrote about the (*) bushrangers of this country in a novel about the outlaw Ned Kelly. For 10 points, name this country home to authors such as Patrick White, who wrote about an expedition into the Outback.**

ANSWER: Commonwealth of Australia <Ganguli, World Literature>

14. **This quantity times elementary charge gives Faraday’s constant. This quantity equals the universal gas constant, divided by Boltzmann’s constant. This quantity multiplies atomic mass units to yield molar mass, since this is the number of atoms in 12 grams of (*) carbon-12. This quantity is defined as 6.022 times 10-to-the-23rd. For 10 points, identify this constant, which is equal to the number of molecules in one mole.**

ANSWER: Avogadro’s constant [or Avogadro’s number] <Wu, Chemistry>

15. **Two lamps appear to hang from a medallion in an artwork of this type named for the town of Ardabil. To depict the title figures’ status, a red one of these objects is placed on a table in *The Ambassadors*, whose artist, Hans Holbein, often painted them. The asymmetrical Senneh knot was used in (*) Persian examples of these artworks, which often feature flowers and Kufic Arabic calligraphy on them. Muslims pray on, for 10 points, what textiles, which are used to decorate floors?**

ANSWER: carpets [accept rugs] <Mundhe, Visual Fine Arts>

16. **One leader of this organization was convicted for the murder of Madge Oberholtzer in Indiana. D. C. Stephenson led this organization, which William Joseph Simmons revived at Stone Mountain in 1915. This organization's (*) glorified depiction in a film screened at the White House, D. W. Griffith's *Birth of a Nation*, helped repopularize it in the 1920s. For 10 points, name this white supremacist organization, whose members wear white hoods.**

ANSWER: Ku Klux Klan [or the KKK; or the Klan]

<Riley, American History>

17. **These locations are the home of a group of organisms whose species include the "staghorn" and "elkhorn." The Great Blue Hole can be found within one of these locations, named after the country of Belize. The largest of the (*) "barrier" type of these locations is located off the coast of Queensland, Australia. For 10 points, name these complex marine ecosystems, which primarily consist of the namesake cnidarians.**

ANSWER: coral reefs [prompt on partial answers; or a barrier coral reef]

<Sareddy, Geography>

18. **This process occurs exactly 131 times during the development of *C. elegans*. This process causes laddering of DNA and blebbing of the membrane. This pathway can be activated by release of cytochrome c from mitochondria, which activates cysteine (*) proteases called caspases. The activation of caspases in this pathway causes the cell's cytoplasm to break up. For 10 points, name this form of programmed cell death.**

ANSWER: apoptosis [prompt on death; or cell death; or programmed cell death; reject "necrosis"]

<Wu, Biology>

19. **A work which takes its title from Philip Larkin's "Church Going" gives a history of this institution, which is called "A Serious House on Serious Earth." At different times, Hugo Strange and Dr. Jonathan Crane have worked at this facility, the latter of whom tested his (*) "fear toxin" on its inhabitants. Another employee of this facility, Harleen Quinzel, was seduced by one of its inmates, the Joker. For 10 points, name this mental asylum, which is often used to contain many of Batman's enemies.**

ANSWER: Arkham Asylum [or Arkham *Asylum: A Serious House on Serious Earth*]

<Mukherjee, Pop Culture>

20. **A similar-looking sibling of this creature guarded the cattle of Geryon and was named Orthus. In the *Aeneid*, the Cumaean Sibyl laces a honey cake with drugs to put this creature to sleep. Heracles wrestled and defeated this creature in his (*) twelfth and final labor. For 10 points, name this three-headed dog from Greek mythology, the guardian of the underworld.**

ANSWER: Cerberus

<Palavajhala, Mythology>

Bonuses

1. Members of this religion set themselves on fire in Tiananmen Square. For 10 points each:

[H] Name this religion founded by Li Hongzi. The five exercises in this religion are intended to turn the “Dharma wheel.”

ANSWER: **Falun Gong**

[E] Falun Gong was founded in this country. This country’s Qin dynasty embraced the ancient philosophy of Legalism.

ANSWER: **China**

[M] This other Chinese religion embraces the concept of “wu wei,” or “not doing.” One symbol of this religion contrasts the black, female side of nature with the white, male side.

ANSWER: **Daoism** [or **Taoism**]

<Palavajjhala, Religion>

2. In 2021, National Geographic officially recognized the Southern Ocean, which surrounds this continent. For 10 points each:

[E] Name this coldest and southernmost continent, which contains most of the world’s fresh water in its ice sheets.

ANSWER: **Antarctica**

[H] Antarctica contains the home of the “Adelie” and “emperor” species of these birds. The northernmost species of these birds lives in the Galapagos Islands.

ANSWER: **penguins** [or Adelie **Penguins**; or Emperor **Penguins**]

[M] The two basins of Lake Vostok, the deepest lake in Antarctica, are divided by one of these features. One of these features in the Atlantic Ocean forms the divergent boundary between the North American and Eurasian plates.

ANSWER: **ridges** [accept mid-Atlantic **Ridge**; or mid-ocean **ridge**]

<Sareddy, Geography>

3. This emperor convened the Diet of Roncaglia after crushing Milan. For 10 points each:

[H] Name this Holy Roman Emperor who drowned in the Saleph River, nicknamed for his beard.

ANSWER: **Frederick Barbarossa** [accept **Frederick I**; prompt on **Frederick**]

[M] Frederick Barbarossa’s death occurred as he was traveling to this conflict, in which Richard the Lionheart led forces against Saladin.

ANSWER: **Third Crusade** [prompt on **Crusades**]

[E] Frederick Barbarossa was excommunicated by the third pope of this name, often adopted by wannabe imitators of a “Great” Macedonian conqueror of this name.

ANSWER: **Alexander** [or **Alexander III**; or **Alexander** the Great]

<Riley, European History>

4. For 10 points each, answer the following about dominant chords:

[E] Dominant chords are classically denoted with this number. Pentatonic scales use this many notes.

ANSWER: **five** [or **fifth**]

[M] Along with the basic notes of a triad, this scale degree is added to dominant chords to make them more tense. The major scale has this many unique notes.

ANSWER: **seven** [or **seventh**]

[H] Jazz musicians will sometimes replace a dominant chord with a chord this interval away in its namesake “substitution.” This dissonant interval is often incorrectly thought to have been banned by the Catholic Church.

ANSWER: **tritone** [accept **tritone** substitution; accept **augmented fourth**; or **diminished fifth**]

<Sarma, Auditory Fine Arts>

5. Mark Post pioneered the “clean” form of this substance in a proof-of-concept built upon by companies such as Beyond [this substance]. For 10 points each:

[M] Name this substance. One aspect of this substance is emulated by the legume derivative leghemoglobin.

ANSWER: **meat** [or clean **meat**; or Beyond **Meat**]

[H] Some meat substitutes add glutamate to emulate this taste. This taste, which is also known as savoriness, is one of the five tastes along with sweet, sour, salty, and bitter.

ANSWER: **umami**

[E] The textured vegetable protein from this legume is used to emulate the mouthfeel of meat in many meat substitutes. This plant’s bean is used to make tofu.

ANSWER: **soybean**

<Wu, Biology>

6. NOTE TO MODERATOR: If you know the inflection for the quote in the leadin, do it.

The widely-mocked line “Father, when can I leave to be on my own? I’ve got the whole world to see” was delivered by this character in a trailer for a 2022 film. For 10 points each:

[E] Name this title wooden puppet of a 2022 Disney live-action remake. This character’s nose grows every time he lies.

ANSWER: **Pinocchio**

[M] This actor will play Geppetto in the aforementioned live-action *Pinocchio*. He also played the title character of *Forrest Gump*.

ANSWER: Tom **Hanks**

[H] This man is directing a stop-motion animated version of *Pinocchio* that will be released in December 2022. Elisa falls in love with an amphibian creature in this Mexican director’s 2017 film *The Shape of Water*.

ANSWER: Guillermo **del Toro**

<Mundhe, Pop Culture>

7. The node values in the left subtree of a tree used in an algorithm for this task are less than the root’s value. For 10 points each:

[M] Name this general task in computer science, which can be naively implemented by sequentially checking list elements starting from the beginning.

ANSWER: **searching**

[E] A search algorithm named for this word repeatedly divides subarrays in half to find a value in a sorted list. This word also refers to the base-2 number system of ones and zeroes that underpins digital computing.

ANSWER: **binary** (search)

[H] The worst case space complexity of a search algorithm can be expressed with this common notation, which is also used to note the worst case runtime of an algorithm.

ANSWER: **Big O** notation

<Maharjan, Computer Science>

8. The protagonist of this novel and Beatrice Severn go to the Shanghai Theatre to save the stripper Teresa from being arrested. For 10 points each:

[H] Name this novel about the vacuum cleaner salesman James Wormold, who gets a second job to support his teenage daughter, Milly.

ANSWER: *Our Man in Havana*

[E] Wormold takes this second job in *Our Man in Havana*. Ian Fleming wrote about a member of this profession, named James Bond, in his novels *Casino Royale* and *Goldfinger*.

ANSWER: spy

[M] This British author of *Our Man in Havana* also wrote about the travels of a whiskey priest in Mexico in his novel *The Power and the Glory*.

ANSWER: Graham Greene

<Ganguli, British Literature>

9. In a 1931 work, Herbert Butterfield criticized an “interpretation of history” described by this adjective. For 10 points each:

[M] Name this adjective used to describe portrayals of history that lead to a “glorious present.” This is also the name of the party that opposed the Tories.

ANSWER: Whigs [or *The Whig Interpretation of History*]

[E] The term “Whig” was used to describe histories of this European country, where the Whigs rivaled the Tories in its Parliament.

ANSWER: England [accept Great Britain or the United Kingdom]

[H] Whig historians attacked this man’s *History of England*, which spanned from Julius Caesar’s invasion to the Glorious Revolution. Immanuel Kant credited this man with awakening him from his “dogmatic slumber.”

ANSWER: David Hume

<Riley, Other History>

10. The murder of Samuel Ratchett is solved by this character, who often boasts of his “little gray cells.” For 10 points each:

[M] Name this Belgian detective, who solves the mystery of the title *Murder on the Orient Express*.

ANSWER: Hercule Poirot [accept either underlined part]

[E] This author of *The Murder on the Orient Express* also writes about Poirot in her novel *The Murder of Roger Ackroyd*. Justice Holgrave fakes his death in this mystery author’s novel *And Then There Were None*.

ANSWER: Agatha Christie

[H] Christie also wrote this play, in which the residents of Monkswell Manor are interrogated by Sergeant Trotter. This play, with over 27,000 performances, frequently uses the song “Three Blind Mice.”

ANSWER: *The Mousetrap*

<Ganguli, British Literature>

11. This man was accused of defrauding the Cherokee by William Stanbery, who he proceeded to beat with a cane. For 10 points each:

[H] Name this rival of Stephen F. Austin, who served as governor of Texas. This man won a trial in the House after that caning.

ANSWER: Sam Houston

[M] This author of the “Star-Spangled Banner” served as Sam Houston’s lawyer during that trial.

ANSWER: Francis Scott Key

[E] William Stanbery was a Senator from this state. The Cuyahoga River has occasionally caught fire in this state’s city of Cleveland.

ANSWER: Ohio [accept J. T. Barrett was short]

<Riley, American History>

12. This quantity is quantized by multiples of e. For 10 points each:

[E] Name this quantity, which can be positive or negative. Current equals the flow of this quantity through a circle.

ANSWER: charge

[M] Name this fundamental law of electrostatics, which gives the force of one charge on another as k times q-one times q-two, over r-squared. The originator of this law tested it using a torsion balance.

ANSWER: Coulomb’s law

[H] Coulomb’s constant equals one over the quantity four pi times this constant, which in SI units is equal to about 8.85 times 10 to the negative twelfth. This quantity is usually symbolized as epsilon sub zero.

ANSWER: permittivity of free space [or vacuum permittivity; prompt on permittivity; reject “relative permittivity”]

<Wu, Physics>

13. The third-oldest university in the Anglophone world is in this country’s city St. Andrews, where golf was invented. For 10 points each:

[E] Name this country, home to the Highlands region. The Loch Ness monster is believed to reside in a lake within this constituent country of the United Kingdom, which is north of England.

ANSWER: Scotland

[M] The film *Trainspotting* is about urban poverty within this city, the capital of Scotland.

ANSWER: Edinburgh

[H] While Edinburgh is the capital of Scotland, this other city is the country’s largest. The soccer clubs Celtic and Rangers, which are both based in this city, compete in the Old Firm derby.

ANSWER: Glasgow

<Pruitt, Geography>

14. This king of Ayodhya is aided by Hanuman in his most famous quest. For 10 points each:

[M] Name this husband of Sita, who defeats the demon king Ravana in a namesake Sanskrit epic.

ANSWER: Rama [prompt on, but DO NOT REVEAL “Vishnu”]

[H] This half-man, half-lion defends his devotee Pahlada from his father Hiranyakasipu by killing him at twilight on the threshold to his courtyard.

ANSWER: Narasimha [prompt on, but DO NOT REVEAL “Vishnu”]

[E] Both Rama and Narasimha are both considered “avatars” of this Hindu preserver god, who makes up the Trimurti alongside Shiva and Brahma.

ANSWER: Vishnu

<Palavajhala, Mythology>

15. The Polgar siblings, who are prodigies in this game, were the subjects of an “experiment” conducted by their father, who said that “geniuses are made, not born.” For 10 points each:

[E] Name this game, one of whose brightest prodigies is the Hungarian player Judit Polgar. Borgov is the final opponent of Beth Harmon in *The Queen’s Gambit*, which centers on players of this game.

ANSWER: **Chess**

[M] Judit Polgár holds this title in chess, the highest title besides World Champion a chess player can achieve. It is awarded by the International Chess Federation.

ANSWER: **Grandmaster**

[H] The current World Champion is this Norwegian grandmaster. He is also the highest-rated player of all time.

ANSWER: Magnus **Carlsen**

<Xie, Pop Culture>

16. A series of color field paintings by Barnett Newman is titled “Who’s Afraid of [these three colors]?” For 10 points each:

[E] Name these three primary colors.

ANSWER: **red**, **yellow**, and **blue** [accept answers in any order as long as all three are present]

[H] With Theo van Doesburg, this painter founded De Stijl, an art movement which used only black, white, and the primary colors. Yellow squares represent taxis in this painter’s *Broadway Boogie-Woogie*.

ANSWER: Piet **Mondrian**

[M] The painter of *Yellow, Red, Blue*, Wassily Kandinsky, was a pioneer of this type of art. Jackson Pollock was part of a movement known as “[this word] expressionism.”

ANSWER: **abstract** [accept **abstract** expressionism]

<Mundhe, Visual Fine Arts>

17. The polydispersity index characterizes the mass distribution of these molecules. For 10 points each:

[M] Name these large molecules, which are composed of repeating units of monomers.

ANSWER: **polymers**

[H] The glass transition temperature of polymers can be measured using the differential scanning type of these devices. A constant-pressure type of these devices, used for combustion, puts the sample in a “bomb.”

ANSWER: **calorimeter** [accept differential scanning **calorimeter**; accept bomb **calorimeter**]

[E] This general class of materials consists of hydrocarbon polymers. The LDPE type of this material is used in bags.

ANSWER: **plastic**

<Wu, Chemistry>

18. This man defeated David McCormick in a primary election that was decided by about 1,000 votes. For 10 points each:

[M] Name this Republican candidate, who failed to succeed Pat Toomey in the Senate. Before pursuing politics, this former surgeon hosted a TV show, co-produced by a company owned by Oprah Winfrey.

ANSWER: Dr. Mehmet **Oz**

[E] Oz was the 2022 Republican nominee for a Senate seat in this state, which is governed from Harrisburg.

ANSWER: **Pennsylvania**

[H] Oz lost the Senate seat to this former Lieutenant Governor of Pennsylvania. The Oz campaign repeatedly challenged this man to debates in the aftermath of a stroke he suffered in May 2022.

ANSWER: John **Fetterman**

<Mundhe, Current Events>

19. Meme Ortiz wins the First Annual Tarzan Jumping Contest in a novel titled for one of these objects. For 10 points each:

[M] Esperanza Cordera lives in what type of building in a novel by Sandra Cisneros.

ANSWER: **Houses** [or *The **House** on Mango Street*]

[H] A character interprets the note “I love you and I want to talk to you” as a marriage proposal in this Trinidadian author’s novel *A House for Mr. Biswas*.

ANSWER: V.S. **Naipaul** [accept Vidiadhar Surajprasad **Naipaul**]

[E] *The House on Mango Street* takes place in this Illinois city, the subject of a poem by Carl Sandburg.

ANSWER: **Chicago**

<Ganguli, World Literature>

20. This general’s army was once held up by a barking dog, which was then given to this general as a pet. For 10 points each:

[M] Name this general, known as “El Libertador” for his role in securing the independence of many South American countries, such as his native Venezuela.

ANSWER: Simón **Bolívar**

[E] During the Admirable Campaign, Bolívar called for the murder of people from this country. Venezuela revolted against this European power after it was conquered by its northern neighbor, France.

ANSWER: **Spain** [accept **Spanish** Empire; or Reino de **Espana**; or equivalent]

[H] Bolívar served as the first president of this short-lived country, which united Venezuela, Ecuador, and its namesake country.

ANSWER: **Gran Colombia** [or **Great Colombia**; prompt on Republic of **Colombia**]

<Mundhe, World History>

Ed. Note: The dog’s name was Nevado. He died at Carabobo.