

2022 KICKOFF Novice

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Packet 11N: "Are you suggesting coconuts migrate?"

Tossups

1. Copper and saltpeter mining in this desert contribute to the economy of cities like Iquique and Antofagasta. In this desert, fog clouds called camanchacas are formed by the nearby Humboldt Current, forming a temperature inversion that enables native plants to survive its conditions. Because of the rain shadow of the (*) Andes Mountains to its east, this desert is considered the driest on Earth. For 10 points, name this desert, located mostly in Chile.

ANSWER: Atacama Desert [or Desierto de Atacama]
<Sareddy, Geography>

2. A political cartoon depicts an act signed by this President as a turtle who bites a man shouting at the "cursed Ograbme." During this man's presidency, James Monroe negotiated with French diplomats over the (*) sale of land that he later sent the Lewis and Clark Expedition to explore. Slaves like Sally Hemmings lived at this man's estate, Monticello. The Declaration of Independence was drafted by, for 10 points, what third U. S. President?

ANSWER: Thomas Jefferson
<Mundhe, American History>

3. One thinker from this country used the example of a man chasing a squirrel in a book subtitled "a new name for some old ways of thinking." A philosophical school originating in this country emphasized the importance of (*) practicality in assessing value. For 10 points, what country is home to Charles Sanders Peirce and William James, the founders of Pragmatism?

ANSWER: United States of America [or the United States; accept USA]
<Palavajhala, Philosophy>

4. Stimulation of tiny nerves helping the flow of this substance is known as the "let-down reflex," which is triggered by oxytocin. This fluid is responsible for passive immunity in the neonatal period because it's rich in IgA. Prolactin triggers the production of this substance from the (*) mammary glands. This substance is often supplemented or replaced with powdered formula. For 10 points, name this substance that is secreted from the breast during lactation, which newborn babies drink.

ANSWER: milk [or breast milk]
<Wu, Biology>

5. **This author wrote an experimental novel that pulled words from over 60 languages and begins “riverrun, past Eve and Adam’s.” In another novel by this author, Molly remembers saying “yes I said yes I said yes” to her husband in the stream-of-consciousness chapter (*) “Penelope.” This author of *Finnegans Wake* wrote about Stephen Daedalus and Leopold Bloom spending a day around Dublin. For 10 points, name this Irish author of *Ulysses*.**

ANSWER: James Joyce

<Sarma, British Literature>

6. NOTE TO MODERATOR: Look over the answerline before reading.

This profession is held by the head of the “Darkstar” initiative, which is threatened by the adoption of drones. The song “Take My Breath Away” debuted in a film centering on people training for this profession, one of whom promises that the son of his dead partner, nicknamed (*) “Goose,” not take it up. Tom Cruise plays a character with this profession, who is nicknamed “Maverick.” For 10 points, name this occupation, for which students at the Top Gun academy train.

ANSWER: Navy pilot [accept fighter pilot; or test pilot; accept pilot instructor or equivalent; prompt on instructor or teacher alone with “who did they teach?”; reject any answer indicating a pilot that did not serve in the Navy, such as “Air Force pilot” or “space pilot”]

<Mundhe, Pop Culture>

7. **This figure prophesied that a tower collapsing was due to a pair of red and white dragons after he was brought to King Vortigern. This mythological character was trapped by his student Viviane, and built the burial place of Aurelius Ambrosius, (*) Stonehenge. This man sealed the sword in the stone to determine the next king of Britain. For 10 points, name this wizard, who advised King Arthur.**

ANSWER: Merlin Ambrosius

<Palavajjhala, Mythology>

8. **In this country, Norodom Sihanouk was overthrown by Lon Nol, who was in turn overthrown in this country’s “Year Zero.” In this country, people who wore glasses were executed in “killing fields,” as well as the school-turned-prison S-21. (*) Pol Pot led a regime in this country, which was called the Khmer Rouge. For 10 points, name this neighbor of Vietnam, home to Angkor Wat.**

ANSWER: Cambodia [prompt on Khmer Rouge before “Rouge” is said]

<Riley, World History>

9. **This painting is analyzed in the preface to Michel Foucault’s *The Order of Things*. Juan del Mazo’s copies of two paintings by Peter Paul Rubens appear in the background of this painting. The artist of this painting appears with a red cross on his chest while working at an easel. A (*) dwarf and a dog are part of the entourage of the Infanta Margarita in this painting. For 10 points, name this painting of the “maids of honor” in a Spanish court by Diego Velazquez.**

ANSWER: *Las* Meninas [or *The* Maids of Honour; or *The* Royal Family]

<Ganguli, Visual Arts>

10. This molecule cleaves a double bond into two carbonyls in its namesake “lysis.” A scale used for measuring the concentration of this molecule has a baseline of 220 and is named for Dobson. This molecule is depleted in a radical mechanism by chlorofluorocarbons, which caused a (*) “hole” in this substance over Antarctica. For 10 points, name this molecule with formula O₃, which forms a layer of the atmosphere responsible for screening UV light.

ANSWER: ozone [or O3 before it is read; accept ozonolysis]

<Wu, Chemistry>

11. One statesman from this city compared the parts of the body to various social classes to end a dispute within its Conflict of the Orders. Lower classes of this city took part in “secessions” where they left it. This city’s Twelve Tables established the tribunate, which was later held by the (*) Gracchi brothers. Plebes fought with patricians in this ancient rival of the Etruscans. For 10 points, name this Italian city, where consuls led an ancient republic.

ANSWER: Rome [or Roma]

<Riley, Ancient History>

12. Two of these animals with crescent moons on their foreheads advise the Sailor Guardians in the Sailor Moon series. One of these animals has twelve legs and takes the form of a “bus” in *My Neighbor Totoro*. A character that is one of these animals is a member of a group that includes (*) Wobbuffet. That character, who is one of these animals, evolves into Persian and is part of a trio with Jesse and James. For 10 points, name these animals that anime characters often have “ears” of, and include Meowth in Pokémon.

ANSWER: cats [or the catbus]

<Xie, Pop Culture>

13. This force is described by a gauge theory with symmetry group SU(3). Asymptotic freedom and color confinement are properties of this force, which is described by quantum chromodynamics. This fundamental force is mediated by the (*) gluon, and holds together protons and neutrons in a nucleus. As its name suggests, this force has a higher strength than the gravitational, electromagnetic, and weak forces. For 10 points, name this most powerful fundamental force.

ANSWER: strong force [accept strong interaction; accept strong nuclear force]

<Wu, Physics>

14. Primo Levi describes working in one of these places as a chemist in his short story “Cerium.” In one book, the narrator declares God “is hanging here from this gallows” after seeing an execution in one of these places. In that memoir, the villagers of (*) Sighet ignore the warnings of Moishe the Beadle and are deported to one of these places. For 10 points, Elie Wiesel’s *Night* is primarily set in what type of location, where Jews were sent during the Holocaust?

ANSWER: concentration camps [or death camps; or extermination camps; accept specific locations, such as Auschwitz]

<Sarma, European Literature>

15. Oskar Potiorek encouraged rioting after this event, whose participants were sentenced to death in the Salonika Trial. One participant in this event failed to kill himself after ingesting expired cyanide and jumping into a river 13 centimeters deep. The July Ultimatum was issued after this event, which was planned by the (*) Black Hand and carried out by Gavrilo Princip. For 10 points, name this murder of an Austro-Hungarian archduke, which led to the outbreak of World War I.

ANSWER: assassination of Archduke Franz Ferdinand [prompt on partial answer; accept reasonable equivalents, such as the killing of Franz Ferdinand]
<Riley, European History>

16. One leader of this religion taught the message of “Ik Onkar,” which appears in the *Mul Mantar*. That leader of this religion claimed “there is no Hindu, there is no Muslim.” Adherents of this religion observe the (*) “five K’s,” including maintaining long hair and keeping a dagger called a kirpan. For 10 points, name this monotheistic Indian religion once led by Gurus, whose male adherents often wear turbans.

ANSWER: Sikhism
<Palavajjhala, Religion>

17. In this country, Myles and Damien Sanderson were suspected of carrying out an attack in 13 separate locations. This country’s leader declared a state of emergency after truckers protesting Covid regulations shut down (*) roads in one region. In September, this country experienced its worst mass stabbing in history in Saskatchewan. For 10 points, name this country led by Justin Trudeau from Ottawa.

ANSWER: Canada
<Riley, Current Events>

18. In this novel, no weapon was found to have murdered a character whose blood trickles through the street. In this novel, only one man remembers the massacre of three hundred plantation workers. A character from this novel fears that babies born from incest will grow a (*) pig’s tail. In this novel, Melquíades brings ice, fascinating José Arcadio, the patriarch of the Buendía family. For 10 points, name this magical realist novel set in Macondo, written by Gabriel García Márquez.

ANSWER: One Hundred Years of Solitude [accept Cien Años de Soledad]
<Mundhe, World Literature>

19. It’s not Spain, but one composer from this country was accused of plagiarizing his *Rapsodie espagnole*, which appears in his *Miroirs* suite. This country was home to the composer of a “habanera,” in which a woman sings that “love is a rebellious bird.” In an opera by a composer from this country, the toreador (*) Escamillo feuds with Don Jose. For 10 points, name this country home to Maurice Ravel and the composer of *Carmen*, George Bizet.

ANSWER: France [or the French Republic; or Republique Francaise]
<Riley, Auditory Fine Arts>

20. In a single Bernoulli trial, there are this many possible results. When a mathematical expression with this many terms is raised to the n-th power, Pascal’s triangle can be used to find the coefficients. This is the order of a (*) quadratic, since x is raised to this power. For 10 points, give this number, which equals the number of terms in a binomial.

ANSWER: two [accept binomial before it is read]
<Wu, Math>

Bonuses

1. Answer the following about sculptor Anish Kapoor. For 10 points each:

[H] Anish Kapoor is perhaps most famous for this sculpture in Chicago's Millennium Park, nicknamed "the Bean."

ANSWER: Cloud Gate

[E] *Cloud Gate* is a popular selfie spot because it is made of the reflective "stainless" variety of this iron alloy.

ANSWER: steel [or stainless steel]

[M] Anish Kapoor has faced backlash from many artists for buying the exclusive artistic rights to a coating of this color, which was made using VANTA nanotubes.

ANSWER: black [accept vantablack]

<Mundhe, Visual Fine Arts>

2. In one story by this author, a boy describes the title word as "loving somebody you don't know." For 10 points each:

[H] Name this author, who wrote about Mr. Kapasi saving Bobby Das from a group of monkeys in the title story of her collection *Interpreter of Maladies*.

ANSWER: Jhumpa Lahiri [or Nilanjana Sudeshna Lahiri]

[M] In Lahiri's novel *The Namesake*, the protagonist's father names him in honor of this author. This Russian author wrote "The Overcoat."

ANSWER: Nikolai Gogol [or Nikolay Vasilyevich Gogol]

[E] Lahiri primarily wrote about Indian immigrants to this country. Most of the stories in *Interpreter of Maladies* are set in this country's city of Boston.

ANSWER: United States of America [or America; or U.S.; or U.S.A.]

<Sareddy, American Literature>

3. If a compound lacks this property, it tends to precipitate out of solution. For 10 points each:

[M] Name this property possessed by alkali metal compounds and nitrates, but not most silver compounds, according to a namesake set of rules. This property of a compound allows it to form a solution.

ANSWER: solubility [accept word forms, like soluble]

[E] These substances, which consist of a positive and negative ion, are usually highly soluble. These substances are contrasted with covalent and molecular compounds.

ANSWER: ionic compounds [or salts]

[H] When you have a solution of lead (II) chloride, adding sodium chloride causes the lead (II) chloride to precipitate out. That situation is an example of this effect, where the solubility of an ionic compound decreases when one of its constituents is added to solution.

ANSWER: common ion effect [prompt on Le Chatelier's principle]

<Wu, Chemistry>

4. Dairy products are consumed during this holiday to celebrate the beheading of Holofernes. For 10 points each:

[E] Name this Jewish holiday, which celebrates an oil lamp burning for eight days and the Maccabean Revolt.

ANSWER: Hanukkah

[M] Practitioners use one of these objects to hold the candles for the eight days of Hanukkah. Each candle in these objects is lit by a "helper" candle, called a *shamash*.

ANSWER: menorah

[H] During Hanukkah, children may play games such as dreidel and bet on it using money known by this term. Recently, instead of real money, chocolate coins are known by this term.

ANSWER: gelt

<Palavajjhala, Religion>

5. One holder of this position was exiled for three years by his prime minister, Yi Yin, until he learned to behave himself. For 10 points each:

[E] Name this general position, which was held by rulers of people centered around the Yellow and Yangtze Rivers.

ANSWER: **emperor** of **China** (prompt on partial answer)

[H] This concept was inaugurated by the Zhou dynasty to legitimize Chinese emperors. According to this concept, the gods bestow favor upon a dynasty until the dynasty went off the rails.

ANSWER: **Mandate** of **Heaven**

[M] Yi Yin was an early leader of the Shang dynasty, which tried to use oracle bones for this process. The Romans attempted to perform this process through augury.

ANSWER: **divination** [or **prophecy**; or seeing the **future**; or equivalents]

<Riley, Ancient History>

6. Chromatic aberration occurs when this quantity depends on wavelength. For 10 points each:

[M] Name this quantity, which equals the ratio of the speed of light in a vacuum to that in a medium. Water has an approximate value of 1.333 for this quantity.

ANSWER: **index of refraction** [or **refractive index**; prompt on **n**]

[H] This law relates the ratio of the sine of two angles to the ratio of two indices of refraction. This law can be derived from applying the principle of least time to the path of light.

ANSWER: **Snell**'s law [or **Snellius**' law]

[E] Above the critical angle, the "total internal" form of this process occurs. This process is the bouncing of light off of surfaces, such as mirrors.

ANSWER: **reflection** [or total internal **reflection**]

<Wu, Physics>

7. After being arrested in Paraguay for allegedly using a fake passport, this man won a prison futsal tournament. For 10 points each:

[H] Name this former Brazilian soccer player, who won the Ballon d'Or in 2005 at FC Barcelona before a transfer to AC Milan in 2008.

ANSWER: **Ronaldinho**

[M] Before playing for Barcelona, Ronaldinho played for a team located in this city. Kylian Mbappe's contract extension with that team from this city makes him the highest paid soccer player in the world.

ANSWER: **Paris** [or **Paris** Saint-Germain Football Club]

[E] While playing for Brazil, Ronaldinho won this international competition in 2002, which was hosted in South Korea and Japan. The 2018 edition of this tournament was won by France at the Luzhniki Stadium in Russia.

ANSWER: FIFA **World Cup**

<Ganguli, Pop Culture>

8. Botswana is the greatest producer of this mineral in Africa. For 10 points each:

[M] Name this precious mineral, often used in wedding rings.

ANSWER: **diamonds**

[E] This country is the greatest producer of diamonds in the world. Yermak conquered Siberia for this largest remnant of the Soviet Union.

ANSWER: **Russia** [or **Rossija**; or **Rossiya**; or **Rossiyskaya** Federatsiya; or the **Russian** Federation]

[H] This other African country fought a civil war centered around its mining of “blood diamonds,” which is detailed in Kanye West’s song “Diamonds from [this country].” This country’s capital is Freetown.

ANSWER: **Sierra Leone** [or “Diamonds from **Sierra Leone**”]

<Sareddy, Geography>

9. In this novel, one character falls in love with the daughter of the lawyer Mr Spenlow, and earlier introduced James Steerforth to Emily Peggotty. For 10 points each:

[M] Name this novel, where the title character helps expose Uriah Heep for fraud and eventually marry Agnes Wickfield.

ANSWER: **David Copperfield**

[E] *David Copperfield* is by this author, who also wrote about the French Revolution in the novel *A Tale of Two Cities*.

ANSWER: Charles **Dickens**

[H] Earlier in his career, Dickens wrote his Sketches under this pseudonym. Dickens took this name from a character from Oliver Goldsmith’s *The Vicar of Wakefield*.

ANSWER: **Boz**

<Wang, British Literature>

10. This man’s killer was found with a copy of J.D. Salinger’s *The Catcher in the Rye*, inside of which he wrote “This is my statement.” For 10 points each:

[H] Name this man, who was shot to death by Mark David Chapman outside his home in New York City in 1980.

ANSWER: John **Lennon**

[M] *The Catcher in the Rye* was also found in this man’s possession after he assassinated John F. Kennedy.

ANSWER: Lee Harvey **Oswald**

[E] *The Catcher in the Rye* was also found in the belongings of John Hinckley Jr. when he tried to kill president Ronald Reagan in this decade. Reagan told Mr. Gorbachev to tear down the Berlin Wall in this decade, which he did.

ANSWER: **1980s** [prompt on **80s**]

<Riley, American History>

11. Answer the following about the Labors of Heracles. For 10 points each:

[H] Heracles is forced to perform his labors in service to this man, the king of Tyrins

ANSWER: **Eurystheus**

[M] Heracles’ first labor was to slay one of these animals from Nemea, which had impregnable skin.

ANSWER: **lion** [or Nemean **Lion**]

[E] The second of Heracles’ labors was to defeat this many headed-monster from Lerna, which grew two heads every time one was cut off. It was defeated after Iolaus burned the severed heads before they could grow back.

ANSWER: Lernean **Hydra**

<Palavajjhala, Mythology>

12. Gather around, everyone! Let me tell you a story about the time the World Health Organization tactically deployed cats via parachute onto the island of Borneo, for 10 points each:

[H] The reason the WHO had to do this in the first place is because they purposefully introduced DDT, an organochlorine one of these chemicals.

ANSWER: **pesticide** [accept **insecticide**; reject “herbicide”]

[M] The DDT eventually led to an annoyingly large boom in the caterpillar population, because the DDT killed off this predator of it. These insects are in the order Hymenoptera, and they make their nests with a mixture of chewed-up wood fibers and solidified saliva.

ANSWER: **wasps**

[E] The DDT killed off all natural predators of rats on the island. Those rats were infected with fleas carrying the *Yersinia pestis* bacteria, causing a minor outbreak of this disease, which once killed off one-third of Europe’s population.

ANSWER: **black death** [or **bubonic plague**; accept **black plague**] (Note: The WHO then parachuted cats into the island to eat these rats.)

<Wu, Mixed/Other Science>

13. In this opera, the male lead throws his gambling winnings at the feet of the title character. For 10 points each:

[H] Name this opera, which ends with Violetta Valery dying of tuberculosis.

ANSWER: *La Traviata* [or *The Fallen Woman*]

[M] *La Traviata* is an opera by this composer of *Aida*.

ANSWER: Giuseppe **Verdi**

[E] *La Traviata* is an opera set in this language, with a libretto by Francesco Maria Piave. Giuseppe Verdi composed primarily in this language for operas like *Aida* and *Rigoletto*.

ANSWER: **Italian** [or **Italiano**]

<Qin, Other Fine Arts>

14. This city was burned down in the 550s during a peasant revolt. For 10 points each:

[H] Name this “birthplace of the gods,” later sacked by the Toltecs for good measure. This city was home to the Avenue of the Dead.

ANSWER: **Teotihuacan**

[M] Teotihuacan was home to two of these structures, which were named for the sun and moon. Djoser constructed “step” varieties of these structures.

ANSWER: **pyramids** [or step **pyramids**]

[E] Teotihuacan was situated in this country, though it was often more interested in exerting its influence south of this modern-day country’s border with Guatemala.

ANSWER: **Mexico** [or United **Mexican** States; or Estados Unidos **Mexicanos**]

<Riley, World History>

15. The final world tour of the Croatian duo 2CELLOS will be over soon. For 10 points each, name some of their contributions in the world of music:

[M] Cello banging, fast exciting rhythms, and playing on the ground in a classical scene earned 2CELLOS massive popularity for their adaptation of *Thunderstruck*, a song by this band. This rock band also released *Highway to Hell*.

ANSWER: **AC/DC** [or **AC⁄DC**]

[E] In their version of *Highway to Hell*, 2CELLOS collaborated with Steve Vai, a player of this instrument. Angus Young played this electric instrument for AC/DC, which plays lots of flashy riffs for rock music.

ANSWER: electric **guitar**

[H] Although there is no music video, 2CELLOS performed the title song from this AC/DC album at many of their concerts. This album also features the song *You Shook Me All Night Long*, which 2CELLOS covered.

ANSWER: **Back in Black**

<Qin, Pop Culture>

16. When applying the chi-squared test to this model, it's important to remember to use only one degree of freedom, even though the equation governing it has 3 terms. For 10 points each:

[H] Name this idealized model of a population, which assumes no migration, no genetic drift, no assortative mating, and an infinite population size.

ANSWER: **Hardy-Weinberg** equilibrium

[M] The 2-p-q term in the Hardy-Weinberg model gives the frequency of this kind of genotype. This kind of genotype has two different alleles at one locus, and is usually written using a capital and a lowercase letter.

ANSWER: **heterozygous** [or **heterozygote** or **heterozygotic**]

[E] A classic example of heterozygote advantage protects against malaria, which is transmitted by Plasmodium in these blood-sucking insects. The name of these insects means "little fly."

ANSWER: **mosquitos** [accept **Culicidae**]

<Wu, Biology>

17. In this play, characters argue over the phrase "light the kettle." For 10 points each:

[H] Name this play, which features two characters that are employees of Wilson. This play ends with a whistle from a speaking tube.

ANSWER: *The **Dumb Waiter***

[M] The hitmen Ben and Gus receive dinner orders in *The Dumb Waiter*, an absurdist play by this author.

ANSWER: Harold **Pinter**

[E] One character in *The Dumb Waiter* reads about a car accident in one of these publications. These publications include *The Daily Mail* and *The New York Times*.

ANSWER: **Newspapers**

<Ganguli, British Literature>

18. If successful, this man's pledge to ban new contracts for oil exploration would make his country the world's biggest crude oil exporter to do so. For 10 points each:

[H] Name this left-wing President, who won the 2022 Colombian election while running with the Historic Pact.

ANSWER: Gustavo **Petro**

[E] Colombia is among the oil producers which have pledged to limit global warming to 1.5 degrees Celsius under this agreement.

ANSWER: **Paris** Climate Agreement

[M] Currently, this country is the world's largest oil producer to stop new exploration. This country's parliament is called the Folketing.

ANSWER: Kingdom of **Denmark** [or **Danmark**ip Nalagawfia; or Kongarikidh **Danmark**; or Kongeriget **Danmark**]

<Zhang, Current Events>

19. George R. R. Martin is well-versed in medieval history. For 10 points each:

[E] The Lannisters and Starks were based on the Lancasters and Yorks, who waged the Wars of the Roses in this country.

ANSWER: **England** [or Great **Britain**; or the **United Kingdom**]

[M] Aegon the Conqueror's conquest of Westeros after landing at King's Landing mirrors this Norman duke's conquest of England. This leader won the Battle of Hastings.

ANSWER: **William** the Conqueror (accept **William I**)

[H] Martin borrowed elements of his bloody Red Wedding scene from this country's "Black Dinner." This country allied with France in the Auld Alliance.

ANSWER: **Scotland**

<Riley, European History>

20. Answer the following about the Iditarod, a large sled dog race. For 10 points each:

[E] Name this state, where the Iditarod takes place. This state's capital is Juneau.

ANSWER: **Alaska**

[M] Although Juneau is Alaska's capital, it is not on the Iditarod route. Instead, the race begins in this most populous city in Alaska.

ANSWER: **Anchorage**

[H] Sled dogs race for nearly one thousand miles before the Iditarod ends in this Western Alaska city on the Seward Peninsula.

ANSWER: **Nome**

<Mundhe, Geography>