

## iFACTS

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### PACKET 04

**Westview:** (Shahar Schwartz, Junu Song, Rohan Venkateswaran, Kevin Yu) with oversight from  
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### TOSSUPS

1. **This modern-day country's capital city was attacked by Mikhail Tukhachevsky's forces in 1920, but that attack was unexpectedly repelled by the defenders. According to legend, the first bagel was served to this country's king after his forces relieved the 1683 Ottoman Siege of Vienna. Earlier in that century, this country lost around a third of its population in an invasion by Sweden known as the (\*) "Deluge".** The marriage of this country's first female monarch, Jadwiga, allowed the Union of Lublin, which united this country and Lithuania until it lost its sovereignty in the late 18th century. For 10 points, name this country which was partitioned three times and has its capital at Warsaw.

ANSWER: (Republic of) Poland [or Polska]

2. **One form of this process sees Xu5P formed via a transketolase. A lysine involved in this process is referred to as E, EC, or ECM. This process uses energy from ATP and NADPH to remove a phosphate group from 3PGA, and reduces DPGA to produce the three carbon sugar (\*) G3P.** C4 plants use PEP carboxylase to form oxaloacetate before beginning this process. In the first step of this chemical pathway, carbon is fixed onto RuBP by RuBisCO. The end product of this pathway is converted to glucose. For 10 points, name this light-independent step of photosynthesis.

ANSWER: Calvin-Benson-Bassham cycle [prompt on "photosynthesis"; prompt on "dark reactions" or "light-independent reactions"]

3. **This poet reflected on "old iron, old bones, old rags" in his "The Circus Animals' Desertion." This poet asked "Did she put on his knowledge with his power / Before the indifferent beak could let her drop?" in a work that represents Zeus as "a feathered glory." In order to "please a companion / Around the fire at the club," one of this man's narrators shares "polite, meaningless words" before lamenting (\*) "a terrible beauty is born." In addition to "Leda and the Swan", this man wrote a poem that states "the falcon cannot hear the falconer" and tells of a "rough beast" that "slouches towards Bethlehem to be born." For 10 points, name this poet of "Easter, 1916" and "The Second Coming".**

ANSWER: William Butler Yeats

4. **This country was the site of the 0,10 ["0 comma 10"] Exhibition. It's not Italy, but a woman from this country led a Futurist painting movement and pioneered Rayonism with works such as *The Cyclist*. In a depiction of "The Last Supper" from this country, the silhouette of Judas on the right side casts an enormous shadow on the left. An artist from this country who was part of "The Wanderers" depicted a group of (\*) Cossacks drafting an insult-filled letter to Mehmed IV; that artist also painted a group of *Barge Haulers*. In this country, a painting of a single black square ushered in Suprematism. Socialist Realism later took over, for 10 points, what country home to Ilya Repin and Kazimir Malevich, who exhibited in St. Petersburg?**

ANSWER: Russia [accept USSR or Soviet Union after "Socialist Realism" is mentioned]

5. **This country's Reunited National Party won a 1948 election under Daniel Malan despite heavily losing the popular vote due to gerrymandering. This country and Israel may have conducted a joint nuclear test in the Vela Incident. This country fought a long-running insurgency by SWAPO that succeeded in 1994. This country was the site of the (\*) Soweto Uprising and the Sharpeville Massacre. A former president of this country was found guilty of conspiring to overthrow the government in the Rivonia Trial and was sentenced lifetime imprisonment, but was released by then-president F. W. de Klerk before becoming president himself. For 10 points, what nation ended its controversial Apartheid policy in the 1990s with Nelson Mandela's election as president?**  
ANSWER: Republic of South Africa

6. **Many notable landmarks in this city are in the Fatih section, including the Spice Bazaar. Water was provided to this city from an area in which two columns contain bases carved with the face of Medusa, the Basilica Cistern. A popular tourist destination in this city is a miniature park depicting important monuments of its country, called (\*) Miniaturk. In May of 2013 the Gezi Park Protests broke out in Taksim Square in this city. The Golden Horn grants a view of this city's Topkapı Palace, where sultans such as Mehmet II ruled. Justinian I built the Hagia Sophia in, for 10 points, what most populous city in Turkey on the Bosphorus, formerly called Constantinople?**  
ANSWER: Istanbul [accept Constantinople until mention]

7. **In one work by this author, a sculptor and his former model rekindle their relationship but die before their planned mountaintop marriage. In another of this man's works, the title character declares that "the majority is never right" in a town meeting after he is unable to fix the (\*) public baths. This author of *When We Dead Awaken* and *An Enemy of the People* wrote about a doctor who contracts syphilis and sends letters with black crosses to the macaroon-eating protagonist. In that play, Krogstad blackmails the title character over a forged signature, and Torvald's possessiveness of Nora causes her to leave her family life behind. For 10 points, name this author of *A Doll's House*.**  
ANSWER: Henrik (Johan) Ibsen

8. **The XENON Project is attempting to use the scattering of particles to discover this entity. This entity was observed by a scientist who noticed anomalies in the rotation curve of the Andromeda Galaxy. The cusp-core problem has led to the idea that this entity interacts with itself, and most instances of this phenomenon can be found in its namesake (\*) "halo". This entity was hypothesized by Fritz Zwicky after observing the Coma Cluster. This substance can interact with gravity, but not with electromagnetic force, making it difficult to detect. For 10 points, name this unobservable form of matter thought to make up 23% of the mass in the universe.**  
ANSWER: dark matter [do not accept or prompt on "dark energy"]

9. **These creatures are venerated on the third day of Pongal, called Mattu Pongal. The realm of Go-lo-ka is named for being their "world." The "mother" of all of these creatures is Kamadhenu. The "five products" of this animal are mixed together into *pan-cha-gav-ya*. These animals were kept by a *gopi* and avatar of (\*) Lak-shmi named Radha. *Gomutra* is the Ayurveda term for traditional medicine made with this animal's urine, A product of these animals is made into *ghee*. The Rig Veda prays for Agni to kill those who kill men, horses, and these animals, which most non-vegetarian Hindus therefore do not eat. For 10 points, Hindus often revere what bovines?**  
ANSWER: cows [or bovines before mention or cattle or clear equivalents]

10. **This thinker's term for the male tendency to prove their status as real men, now more applied to stereotype-defying women, was "masculine protest." He adapted the "As If"-centered thought of Hans Vaihinger to state humans create a "fictional final goal" they equate with relief from their problems. This**

**thinker believed people unconsciously follow a particular “style of life” determined partly by (\*) birth order.** The Nietzschean “Will to Power” figures heavily in his “individual psychology.” In *The Neurotic Character*, he coined the term for a constant feeling of weakness compared to other people. For 10 points, name this formulator of the “inferiority complex.”

ANSWER: Alfred W. Adler

**11. One of this man’s works featured a Georg Kolbe statue called *Alba* placed in a small water basin. One of this architect’s first major works had a back facade that could be completely opened and a translucent onyx wall on the interior. This man created a house for the Tugendhat family that contained his Brno chairs. In order to maintain a uniform facade, the window blinds (\*) in a building designed by this architect only have three settings. That building uses exterior bronze I-beams to display structure and was a collaboration with Philip Johnson, who designed its Four Seasons Restaurant. The Seagram Building was designed by, for 10 points, what International Style architect who adopted the maxim “less is more?”**

ANSWER: Ludwig Mies van der Rohe [accept either underlined answer]

**12. A father who believes he is at this place is told, “Ten masts at each make not the altitude / Which thou hast perpendicularly fell.” A girl identified with the name of this location is brought “a bottle of Nuit d’Amour” and is treated as “a sort of mournful cosmic last resort” in an Anthony Hecht poem. A man here reflects that the world “hath really neither joy, nor love, nor light” after hearing a “melancholy, long, withdrawing (\*) roar.”** This location reminds the speaker of Sophocles being sad by the Aegean in the most famous poem about it. Edgar brings Gloucester to the plains near this place, where he falls off what he thinks are its cliffs. A poem titled for this place reflects on the “Sea of Faith.” For 10 points, name this setting of Matthew Arnold’s best known poem.

ANSWER: Dover (Beach) [or anything about the cliffs of Dover; prompt on “beach”]

**13. This person won a leadership position over Willie Whitelaw and went on to defeat David Steel in a general election. IRA member Patrick Magee unsuccessfully attempted to assassinate this leader by detonating a bomb at the Brighton Hotel, and as Education Secretary under Edward Heath, she attempted to cut a free (\*) milk program in schools, earning her the nickname “milk snatcher”. Dissatisfaction with the Labour candidate John Callaghan resulted in this leader coming to power during the Winter of Discontent, and she sent British forces to defend the Falklands after an invasion by Argentina. For 10 points, name this “Iron Lady” , a Conservative Prime Minister of Britain.**

ANSWER: Margaret Thatcher

**14. In this work, one character breaks Rule 23 in favor of Rule 72. In a later scene, the title object appears on an X-ray that a doctor calls “something incredible.” Glazed donuts and coffee cups dance around the main character in a “spooky” dream sequence in this musical, dissuading him from transferring to Orlando. The title of one number from this musical refers to a phrase used to curse (\*) God, “Hasa Diga Eebowai.”** Ugandan villagers in this musical produce a play combining science fiction with the life of the “American Moses”. Andrew Rannells and Josh Gad played Elder Price and Elder Cunningham on the original cast of, for 10 points, what musical about two proselytizers of the title religion?

ANSWER: *The Book of Mormon*

**15. Accounting for variation due to temperature, this quantity can be approximated in the form “a + b times temperature + c over temperature squared”, where a, b, and c are empirical parameters. For an ideal gas, the difference between two forms of this quantity is equal to the gas constant by Mayer’s relation; the product of pressure and volume raised to the ratio of those two forms of this quantity is held constant in an (\*) adiabatic process. This quantity is equal to the derivative of internal energy with respect to temperature at constant volume.**

Heat equals the product of the change in temperature and, for 10 points, what quantity that measures the heat needed to raise the temperature of a substance by one degree Celsius?

ANSWER: **heat capacity** [or **thermal capacity**; accept specific forms like **specific heat capacity** or **molar heat capacity**]

16. **This figure lends his name to a festival in which a wooden statue was dressed as a bride to honor the marriage of Zeus and Hera. This figure hid in Kamikos under the care of King Cocalus, where he killed his former employer by pouring hot water on him during a bath. A scar resembling a partridge appeared on his shoulder after he tried to kill his nephew and rival Perdix. He threaded a string through a (\*) conch with an ant and some honey. He built a wooden bull for Pasiphae before being trapped in a tower by Minos after designing the Labyrinth. For 10 points, name this inventor who used wax to make wings with which Icarus flew too close to the sun.**

ANSWER: **Daedalus** [or **Daidalos**]

17. **This man wrote a work in which an unfaithful wife commits infanticide after being impregnated by her own son-in-law. He wrote a play in which Christine becomes Adam Brant's mistress and poisons her husband, Ezra Mannon; that play is a retelling of the Oresteia. In another play by this man, a former anarchist causes Don Parritt to jump off a fire escape and is nicknamed the (\*) "foolosopher." In that play, Hickey decries the "pipe dreams" of the customers in Harry Hope's bar. In the most famous of his plays, this man depicted Mary's relapse into morphine addiction. For 10 points, name this playwright who wrote about the Tyrone family in *Long Day's Journey into Night*.**

ANSWER: Eugene **O'Neill**

18. **This instrument plays a flurry of thirty-second notes to begin the Allegro malinconico first movement of Poulenc's sonata for it. Marcel Moyse added bar lines to the first solo piece composed for this instrument under the modern Boehm system. This instrument, which plays Debussy's *Syrinx*, descends from C-sharp to G and then ascends back to C-sharp in the opening to a symphonic poem inspired by (\*) Mallarmé. This instrument is the first to play the melody in *Boléro*, entering two measures after the snare drum. A chromatic solo from this instrument begins Debussy's *Prelude to the Afternoon of a Faun*. For 10 points, name this reedless, transversely-played woodwind that is lower than the piccolo.**

ANSWER: transverse **flute** [or side-blown **flute**]

19. **Henry Raymond, a co-founder of this organization, once fought off draft rioters with a Gatling gun. This organization obliged John Patterson's request to retract "Heed Their Rising Voices" in a 1964 Supreme Court case. That case established the "actual malice" standard and was instigated by city commissioner L.B. (\*) Sullivan. Daniel Ellsberg provided 43 volumes of a "Study Prepared by the Department of Defense" to this organization detailing US bombings in Cambodia and Laos. This organization originally published the Pentagon Papers. "All The News That's Fit To Print" is the slogan of, for 10 points, what American paper of record nicknamed "The Gray Lady"?**

ANSWER: *The* **New York Times** [or **NYT**; prompt on "The Times"; prompt on "The Gray Lady" before mentioned]

20. **This compound displaces one of the two chlorine ligands in the mechanism of cisplatin. This compound is oxidized into oxygen gas above its upper stability limit on a Pourbaix diagram. Trace amounts of this compound can be found in a Fischer titration. In common calculation, an extremely dilute acid does not have basic pH because of this compound's (\*) autoprotolysis. Because of the leveling effect, no acid stronger than the hydronium ion exists in this compound. Despite its low atomic mass, this compound has higher than expected**

specific heat and boiling point due to its ability to form hydrogen bonds. Two lone pairs are found on the central oxygen atom in, for 10 points, what chemical commonly known as the “universal solvent”?

ANSWER: water [or H<sub>2</sub>O]

**TB. In this work, a character insists that certain types of people call her “Mom.” Another character is first seen on an airplane, where she advises the narrator to “never index [his] own book.” That character, Claire Minton, is in a duress with her husband, the ambassador from the United States. The narrator first sees the woman he wants to marry in a (\*) magazine, but soon learns that she is engaged to Frank. Mona participates in boko-maru to pacify the narrator, and Julian Castle explains to the him that everyone on their island follows Bokononism. The island of San Lorenzo is destroyed in, for 10 points, what novel in which John learns about the invention of Ice-Nine, by Kurt Vonnegut?**

ANSWER: *Cat's Cradle*

## BONUSES

1. Answer some questions about gorillas in art, for 10 points each:

[10] Feminist art group Guerrilla Girls placed a gorilla head on this Neoclassical painter's *La Grande Odalisque* in a poster asking "Do women have to be naked to get into U.S. museums?"

ANSWER: Jean-Auguste-Dominique **Ingres**

[10] Angus Fairhurst captured himself naked and slumped in the arms of a stuffed gorilla suit in this photograph. It humorously recreates a Michelangelo sculpture of the same name housed in St. Peter's Basilica.

ANSWER: ***Pietà***

[10] Fairhurst was part of this group of artists known for various unconventional sculptures and installations such as Tracey Emin's *My Bed*. Charles Saatchi notably showcased much of their art in his gallery in London.

ANSWER: **Y**oung **B**ritish **A**rtists [or **YBA**]

2. According to everyone who isn't everyone's favorite mythographer An·ton·in·us Liberalis, Dionysius turned the Min·ya·des into these creatures for refusing to worship him. For 10 points each:

[10] Name these creatures. A god of them named Camazotz decapitates Hu·nah·pu after he peeks his head out to see if daylight has come before the Lords of Death play a ball game with that head.

ANSWER: **bats** [or **Chiroptera**]

[10] Camazots live in the Bat House, which appears in the underworld of the Maya as described in this book.

ANSWER: **Popol Vuh** ["vookh"; accept **Popol Wuj**; accept *The Council Book* or **Book of Council** or **Book of the People** or **Book of the Community**; accept "Our **Place in the Shadows**" or "The **Light That Came From Beside the Sea**" or "The **Dawn of Life**"]

[10] Mayan heroes Hunahpu and Xbalanque ["shbah-lan-KAY"] have this relationship. Castor and Pollux also had this relationship.

ANSWER: **Twins** [accept **Hero Twins**; prompt on "brothers"]

3. This quantity can be defined as the ratio of resonant frequency to resonance width. For 10 points each:

[10] Name this dimensionless quantity that measures the rate energy loss relative the stored energy of a resonator. Resonators with higher values of this quantity vibrate for longer periods of time.

ANSWER: **Q** factor [or **quality** factor]

[10] The value of the Q factor determines the degree to which a system undergoes this effect. When this effect does not occur, a simple harmonic oscillator will vibrate forever and the Q factor will be infinite.

ANSWER: **damping** [accept **damped** oscillation, or appropriate word forms]

[10] Damping occurs due to energy losses from this force, whose static type explains why a person needs a certain amount of force to push a large object.

ANSWER: **friction** [accept static **friction** or kinetic **friction**]

4. This conflict pitted the Russian Empire against an alliance of Britain, the Ottoman Empire, and France. For 10 points each:

[10] Name this war fought on a namesake Russian peninsula on the Black Sea, the setting of the Battle of Balaclava.

ANSWER: **Crimean** War

[10] This largest city on the Crimean Peninsula was besieged by allied forces and fell after 11 months. This city was home to the Russian Black Sea Fleet.

ANSWER: **Sevastopol**

[10] This depressed general was the commander of all British forces in Crimea. His misunderstood orders at the Battle of Balaclava led to the infamous Charge of the Light Brigade.

ANSWER: Lord **Raglan** [or FitzRoy James Henry **Somerset**, 1st Baron **Raglan**]

5. Name some musical tributes to John F. Kennedy, for 10 points each:

[10] Upon receiving news of JFK's assassination, the Boston Symphony Orchestra performed the second movement funeral march of this Beethoven symphony. After Napoleon declared himself emperor, Beethoven rededicated this symphony to "the memory of a great man".

ANSWER: "**Eroica**" Symphony [or Symphony No. **3**]

[10] This piece, performed at JFK's funeral, begins on a held B-flat and builds up through layered three-note phrases. The composer later adapted this piece into his *Agnus Dei*.

ANSWER: **Adagio for Strings**

[10] This American composer's *Kaddish* Symphony is dedicated to JFK and begins by addressing "my Father, ancient, hallowed, lonely, disappointed Father". His other symphonies are *Jeremiah* and *The Age of Anxiety*.

ANSWER: Leonard **Bernstein** [accept Louis **Bernstein**]

6. These entities are usually denoted by double daggers on potential energy surfaces. For 10 points each:

[10] Name these configurations that were studied by Henry Eyring. They correspond to the points of highest energy and instability in reaction coordinates.

ANSWER: **transition states** [prompt on "activated complexes"]

[10] According to the Hammond's postulate, transition states are closest in resemblance to species with similar values for this quantity. Named for an American scientist, this quantity also predicts reaction spontaneity.

ANSWER: **Gibbs free energy** [prompt on "energy" or "free energy," prompt on G]

[10] One can determine transition state structure by looking for these points on the potential energy surface of the chemical species of interest. In general, at one of these points, a function is a local minimum on one axis and a local maximum on the other.

ANSWER: first-order **saddle** point [or **minimax** point; also accept **critical point of index one**; prompt on "critical point"]

7. In August 2017, Donald Trump controversially claimed that acts of violence in this city occurred "on many sides." For 10 points each:

[10] Name this city in which a white nationalist march to preserve a statue of Robert E. Lee ended in a man driving into a crowd of counter-protesters.

ANSWER: **Charlottesville**, Virginia

[10] This white nationalist, whose attempt to speak at Michigan State University was recently canceled due to student protests, played a prominent role in the Charlottesville rally. This man runs the National Policy Institute and was punched on camera in January 2017 while giving an interview.

ANSWER: Richard **Spencer**

[10] This waitress and paralegal died as the result of the Charlottesville incident. Shortly after the march, a memorial for this person included her sign at the protest, which reads "NO PLACE FOR HATE!".

ANSWER: Heather **Heyer**

8. In one of this author's novels, Hazel Motes and Enoch Emory steal a mummy in an effort to create a "new Jesus." For 10 Points each:

[10] Name this author of a work in which Motes finds a "Church Without Christ", as well as the novel *The Violent Bear it Away* and a story in which a bible salesman steals a disabled woman's artificial leg.

ANSWER: Flannery **O'Connor** (novel is *Wise Blood*, story is "Good Country People")

[10] O'Connor also wrote this short story which follows a family as they undergo a disastrous road trip to Florida. It ends in a tragic encounter with an escaped outlaw known as the Misfit.

ANSWER: "**A Good Man is Hard to Find**"

[10] The Misfit kills the family because this character reveals the Misfit's identity. The Misfit later quips that this character "would have been a good woman, if there had been somebody there to shoot her every minute of her life."

ANSWER: The **Grandmother**

9. Many authors exhibited peculiarities in their writing. Name a few, for ten points each:

[10] The first manuscript of *On the Road* exhibits this peculiar property, which allowed Kerouac to experiment with "spontaneous prose" and forgo loading sheets into a typewriter. Edgar Allen Poe used sealing wax to accomplish this same feat.

ANSWER: on a **continuous scroll** [accept equivalents like "on a single page"; prompt on "large page" or equivalents]

[10] Due to severe iritis, this author was forced to write *Finnegans Wake* on cardboard using large crayons while wearing a white, reflective coat. He employed stream-of-consciousness to depict Leopold Bloom's day in *Ulysses*.

ANSWER: James **Joyce**

[10] Pablo Neruda wrote his works using ink of this color because it represented desire or hope. In "Romance Sonambulo," Garcia Lorca describes how much he wants this color in wind, branches, flesh, and hair.

ANSWER: **green**

10. One student leader at this university gave the "Bodies upon the gears" speech during a protest at its Sproul Hall. For 10 points each,

[10] Name this university at which Mario Savio led the Free Speech Movement.

ANSWER: University of **California, Berkeley** (accept **Cal**, prompt on **UC**)

[10] The Berkeley protests, among many others, occurred in the wake of the United States' involvement in this war.

ANSWER: **Vietnam** War [or **Second Indochina War**]

[10] The Vietnam War catalyzed the rapid emergence of this left-wing student activist movement. Its manifesto was known as the Port Huron Statement, and Weather Underground became a notable off-branch of it.

ANSWER: **S**tudents for a **D**emocratic **S**ociety [or **SDS**]

11. In one work, this author wrote how fallen Calcuteecs become criminal Semiotecs and work for the Factory. For 10 points each:

[10] Name this author of *Hard Boiled Wonderland and the End of the World* who detailed Toru Watanabe pursuing Midori in *Norwegian Wood*.

ANSWER: Haruki **Murakami**

[10] In a Murakami work titled after a "wild" one of these animals, an advertising agency employee goes on a quest with his supernaturally-eared girlfriend. The Boss, an unnamed elite, also seeks out that creepy, body-possessing animal.

ANSWER: **sheep**

[10] A distinctive characteristic of the sheep is a mark shaped like this object on its side. The narrator of "When I Heard the Learn'd Astronomer" looks up at these objects "in perfect silence."

ANSWER: **star**



12. Marshall Applewhite founded the group that perpetrated this event, then co-lead it with Bonnie Nettles. For 10 points each:

[10] Name this event carried out by a religious group based in San Diego in 1997 to board a spacecraft and reach the “Next Level.” A description is fine.

ANSWER: mass **suicide** of **Heaven’s Gate** members [or anything about a **suicide** and the transit of the Hale-Bopp **comet**]

[10] The Heaven’s Gate mass suicide is sometimes compared to the Peoples Temple in Jonestown, Guyana, where socialist followers of Jim Jones were forced to use this substance laced with potassium cyanide to end their lives.

ANSWER: (grape) **Kool-Aid** [or (grape) **Flavor-Aid**; or “**Cool Aid**” or anything else in the same vein]

[10] David Koresh was shot and killed by his right-hand man Steve Schneider, just as Jim Jones was. Koresh’s Branch Davidian compound was sieged for 51 days in this state’s city of Waco, which Alex Jones reported as an ATF conspiracy from its capital, Austin.

ANSWER: **Texas**

13. Frederick Griffith demonstrated this process in bacteria with “smooth” and “rough” strains of *Streptococcus pneumoniae*. For 10 points each:

[10] Name this process, one of the three methods of horizontal gene transfer along with conjugation and transduction. It involves direct uptake of genetic material from an environment.

ANSWER: **transformation** [also accept **transfection**]

[10] Transformation can be aided by increasing the competence of cells; one method of doing so is conducted by applying an electric field to increase membrane permeability in a technique known by this term.

ANSWER: **electroporation** [or **electropermeabilization**]

[10] Another method of promoting competence involves exposing the cells to a salt of this element before applying heat shock. As an ion, this element is a notable secondary messenger and is involved in bone resorption.

ANSWER: **calcium** [or **Ca<sup>2+</sup>**; prompt on “Ca”]

14. The title character of this work ends a war with help from Kleonike and Myrrhine. For 10 points each:

[10] Name this comedy in which the title character ends the Peloponnesian War by convincing the women of Greece to not have sex with their husbands.

ANSWER: **Lysistrata**

[10] This other play by the author of Lysistrata features a satire of the Athenian politician Cleon as he competes with a sausage seller named Agoracritus for the approval of the Demos.

ANSWER: *The **Knights***

[10] This Athenian master of comedy wrote *Lysistrata* and *The Knights*, as well as other plays such as *The Birds* and *The Frogs*.

ANSWER: **Aristophanes**

15. Martha Nussbaum criticized this thinker for, among other things, the sort of unreadable writing that won her the 1st prize in *Philosophy and Literature*'s annual Bad Writing Contest ahead of Homi Bhabha in "The Professor of Parody." For 10 points each:

[10] Name this thinker best known for claiming that gender is performative, or "done" rather than fixed and unchanging in her *Gender Trouble*.

ANSWER: Judith **Butler**

[10] Nussbaum linked Butler's popularity with that of French post-structuralists, among whom is the similarity indecipherable Julia Kristeva. Kristeva coined a term for the interactions between these things that affects their meaning. They are often subjected to "close readings."

ANSWER: **texts** [or **books** or anything about **written** media, although "text" is a more abstract term and they are not really the same thing; accept **intertextuality**]

[10] al-Ghazali accused the followers of Avicenna of incoherence of a more logical than linguistic sort in *The Incoherence of the Philosophers*. This Aristotelian Islamic thinker responded in *The Incoherence of the Incoherence*.

ANSWER: **Averr(h)oes** [or Abū l-Walīd Muḥammad Ibn 'Aḥmad **Ibn Rushd**]

16. During this battle, the so-called "Sacred Way" provided troops and supplies to this battle, and was instrumental in the French defense. For 10 points each:

[10] Name this 303-day World War One battle fought between France and Germany near a small French city on the Meuse River.

ANSWER: Battle of **Verdun**

[10] This French general who commanded the Second Army at Verdun became a national hero and was called the "Lion of Verdun" for his achievements. During the Second World War, he was the leader of Vichy France.

ANSWER: Philippe **Pétain**

[10] During the Vichy regime, the previous French motto of "Liberty, Equality, Fraternity" was replaced by this other tripartite motto.

ANSWER: **work, family, fatherland** [or **travail, famille, patrie**]

17. Water is a necessity for life. It also makes up about 71% of Earth's surface. For 10 points each:

[10] This body of water, in addition to being a whaling destination since the 1800s, separates the North and South islands of New Zealand. It was renamed to in 1770 after its namesake explorer discovered that it is not a bight.

ANSWER: **Cook** Strait

[10] One of the main rivers of the Mesopotamian civilization, this river forms the border between Turkey and Syria. It starts in the Taurus Mountains in Turkey before flowing through cities such as Baghdad.

ANSWER: **Tigris** River

[10] This frozen sea in the Arctic Ocean is home to many island groups such as the Nordenskiöld Archipelago. In 2012, it was found out that the Soviet Union had previously been dumping nuclear waste into this sea.

ANSWER: **Kara** Sea

18. The “Hubble tuning fork” classifies these entities based on morphology, with ellipticals to the left of the diagram and spirals to the right. For 10 points each:

[10] Name these gravitationally bound systems of stars, gas, and dust. Examples of these structures include Andromeda and the Milky Way.

ANSWER: **galaxies** [accept spiral **galaxies**]

[10] The Hubble tuning fork splits into two branches of spiral galaxies: one for regular spirals and one for this type of spiral. The characteristic feature of these galaxies is likely due to density waves reshaping the orbits of inner stars, thereby stretching the galaxy’s bulge.

ANSWER: **barred** spiral galaxies [or **SB**]

[10] This type of intermediate galaxy, symbolized S0 or SB0, lies at the branching point of the Hubble tuning fork. These galaxies, which include the Spindle Galaxy, have prominent bulges yet relatively small disks.

ANSWER: **lenticular** galaxies

19. This painting is considered a portrait of patron Edward James, despite his face not being shown. For 10 points each:

[10] Name this painting in which a man stands facing a mirror, but the mirror shows his reflection from behind, not from the front.

ANSWER: ***Not to be Reproduced*** [or ***La reproduction interdite***]

[10] *Not to be Reproduced* was painted by surrealist René Magritte, who hailed from this country.

ANSWER: Kingdom of **Belgium**

[10] This other Belgian artist and member of Les XX [“twenty”] painted a woman seated at a table in *The Oyster Eater* as well as a large parade and banner reading “VIVE LA SOCIALE” in *Christ’s Entry into Brussels in 1889*.

ANSWER: James **Ensor** [or James Sidney Edouard, Baron **Ensor**]

20. There were some turbulent times in Japan’s history. For 10 points each:

[10] This third and final Japanese Shogunate, which lasted from 1603 until the Meiji Restoration 200 years later, was founded by a man named Ieyasu from the shogunate’s namesake family.

ANSWER: **Tokugawa** Shogunate

[10] Tokugawa Ieyasu was able to conquer and unify all of Japan, therefore ending this nearly 150 years-long “Warring States period”.

ANSWER: **Sengoku** Period

[10] Prior to the Sengoku period, this shogunate ruled Japan under a feudal system for over 200 years.

ANSWER: **Ashikaga** Shogunate