

# Michigan Winter Tournament

"The Holy Roman Empire of Tournaments"

Edited by: Harris Bunker, Emmett Laurie, Evan Lynch, Matt Mitchell, Eric Mukherjee,  
Jacob O'Rourke, Rudra Ranganathan, Conor Thompson, Jeremy Tsai, and Chandler West

Written by: The editors, Mollie Bakal, Austin Foos, Beverly Fu, Colton Graham, James Hadley, Sean Higgins,  
Tyler McMaken, Ameya Phadnis, Aleija Rodriguez, James Stevenson, and Allan VanZandt

## Packet 2

Tossups:

1. **This character escapes being executed at the end of the novel in which he appears by hitting a briefcase-holding person with a spear. At a birthday party, this character is seduced by a woman with a rape fantasy named Sybil. While in college, this character meets a disgraced man who accidentally impregnated his own daughter, Jim Trueblood. This character unwittingly delivers letters telling employers not to hire him. This character meets Brother Jack and the (\*) Marcus Garvey stand-in, Ras the Exhorter. This character is subject to electroshock therapy after an explosion at his workplace, Liberty Paints. In the first chapter of the book, this character must fight other black boys in a "Battle Royal." For 10 points, name this title character of Ralph Ellison's first novel.**

ANSWER: unnamed **narrator** from *Invisible Man* [accept the **invisible man**; accept obvious equivalents for "narrator" such as **protagonist** or "**main character**" as long as the book is mentioned] <Bunker, American Literature>

2. **The victors of this battle were strongarmed by the "sell or starve" rider attached to an appropriations bill passed shortly after it. The steamboat *Far West* shuttled the injured away from this battle; it also broke the news of the battle. Marcus Reno ordered a controversially hasty retreat at this battle. This battle was preceded by the Battle of the Rosebud, at which the saving of Chief Comes in Sight had been a rallying cry; he had been saved by (\*) Buffalo Calf Road Woman, who is credited with delivering the final blow to an enemy commander at this battle. An investigation into the possibility of gold in the Black Hills preceded this battle. For 10 points, name this battle, in which forces led partially by Crazy Horse defeated George Custer's US forces.**

ANSWER: Battle of the **Little Bighorn** [accept Battle of the **Greasy Grass**; accept **Custer's Last Stand** before "Custer" is named] <Laurie, American History>

3. **The oldest of these people meditates in a lake before his final battle. These people were born after a lump of flesh was cut into a hundred and one pieces. Before cursing Krishna and his dynasty with destruction, the mother of these people charred her nephew's toe with her gaze through a gap in her blindfold. Draupadi washed her hair with the blood of one of these people after his death, as revenge for him trying to (\*) disrobe her in front of the court. Yuyutsu was the only one of these people to switch sides before the start of the Kurukshetra War. The uncle of these people, Shakuni, wins a dice game against Yudhishthira to force him and his brothers into exile. For 10 points, name these siblings who fought the Pandavas in the Mahabharata.**

ANSWER: **Kauravas** <Ranganathan, Mythology>

4. **By using data from NASA's Advanced Composition Explorer, Ko and collaborators were able to differentiate two forms of this phenomenon by using estimated velocity fluctuations. The strength of this phenomenon is correlated with the luminosity of the accretion disk for T Tauri stars. One form of this phenomenon varies in its density, temperature and ionization state and originates in certain, funnel-like "holes." Due to intense radiation pressure, (\*) Wolf-Rayet stars exhibit a powerful version of this phenomenon, which causes them to lose mass at a high rate. The magnetic reconnection in Earth's magnetotail caused by this phenomenon can cause aurorae. For 10 points, name this phenomenon in which a flow of charged particles are ejected from the corona of a star.**

ANSWER: **solar wind** [or inter**stellar wind**; accept fast or slow **stellar wind**; prompt on **coronal mass ejection** or **CME**] <Bunker, Astronomy>

5. **Members of this ethnic group made up the March 23 movement, which rebelled against local Mai-Mai militias. Romeo Dallaire recorded an event targeting these people in *Shake Hands with the Devil*. Laurent Nkunda led members of this ethnic group in revolt against Joseph Kabila's government. RTLM, a radio station which encouraged violence against members of this ethnicity, was controversially allowed to operate in the (\*) Zone Turquoise. Laurent-Désiré ["lohr-ahn day-zee-ray"] Kabila led a force primarily composed of this ethnic group against Mobutu Sese Seko during the First Congo War. Members of this ethnic group made up the RPF, a group which fought forces such as the Interahamwe during an event partially triggered by the assassination of Juvenal Habyarimana. For 10 points, name this ethnic group who were the targets for a Hutu-led genocide in Rwanda.**

ANSWER: **Tutsi** [or any of **Abatutsi**, **Watutsi**, **Watusi**, **Wahuma**, **Wahima**, **Wahinda** or **Imfure**] <Laurie, World History>

6. **The title story of a collection by this author describes her childhood friend Diane, who attempts to teach her the Highland Fling. That story is part of the largely autobiographical "Finale" section of this author's most recent collection. The unnamed tomboy narrator of a story by this author is dismissed by her father, who states that she is "only a girl." The piano teacher Miss (\*) Marsalles compliments a handicapped student for her performance of the title piece in a story by this author. The narrator of another story by this author quizzes her dementia-afflicted father on the title astronomical objects after visiting a planetarium show. *Dear Life*, *Dance of the Happy Shades*, and *The Moons of Jupiter* are collections by, for 10 points, what Canadian author who won the 2013 Nobel Prize in Literature?**

ANSWER: Alice **Munro** [or Alice **Laidlaw**] <West, World/Other Literature>

7. **Resistivity can vary as either the second, third, or fifth power of this quantity, depending on whether electron-phonon or electron-electron scattering is considered in the Bloch-Grüneisen formula. In the presence of magnetic impurities, the logarithm of this quantity contributes an additional term to resistivity in the Kondo effect. The Debye model correctly predicts a cubic dependence of (\*) heat capacity on this quantity, and the variance of a Maxwell-Boltzmann distribution is Boltzmann's constant times this quantity over mass. When this quantity is below a critical value, superconductivity is achieved. For 10 points, name this quantity which cannot be below absolute zero.**

ANSWER: absolute **temperature** [prompt on T] <Mitchell, Physics>

8. **A member of this movement threw a menstrual cup filled with actual menstrual blood from the balcony of the California Senate in a bizarre protest. A handbook for this movement is published by the group PEACH. A representative from the Church of Scientology headlined a symposium for this movement in Rockland County, New York, attended by hundreds of ultra-orthodox Jews. An organization in support of this movement led by (\*) Robert F. Kennedy Jr. ran many Facebook ads, opposing the use of thiomersal. A now-retracted paper in the *Lancet* published by Andrew Wakefield claiming a link to autism was one source of, for 10 points, what crackpot anti-science movement which has led to a resurgence of measles?**

ANSWER: **anti-vaccination** movement [or **anti-vaxxers**; accept anything similar to **vaccine hesitancy** or **vaccine skepticism**] <Tsai, Other Academic>

9. **Maki Namekawa recorded a complete cycle of this composer's piano etudes, the first six of which were written for the 50th birthday of Namekawa's husband, conductor Dennis Russell Davies. Traditional cadenzas are replaced with a "Prologue" and three "Songs" in this man's second violin concerto. This man created a special "Sony Walkman mix" for one of his albums, which utilized flutes and saxophone on tracks like "Floe" and "Island". A trilogy of experimental films directed by (\*) Godfrey Reggio was scored by this man, the first one titled for a Hopi word meaning "life out of balance." This composer used his signature style of repetitive arpeggios for film scores including *The Hours* and *Koyaanisqatsi*. For 10 points, name this minimalist American composer, also known for *Einstein on the Beach*.**

ANSWER: Philip **Glass** (the unnamed album is *Glassworks*) <Tsai, Classical Music>

10. **A character created by this author tells of giving three things to a student going to fight the Turks: Plato's *Republic*, a gun, and one hundred bullets. An antagonist created by this author is told "blow, Machiavelli, blow" by a Euripides-quoting character who gives him a trombone. A character created by this man lists "respectability and children" among the seven sins which can only be lifted from man's neck with (\*) money. In a play by this author, Adolphus Cusins reveals his status as a "foundling" under English law in order to inherit a business. In a play by this man, the phonetics professor Henry Higgins trains Eliza Doolittle to pass as an upper class woman. For 10 points, name this author of *Major Barbara* and *Pygmalion*.**

ANSWER: George Bernard **Shaw** <Laurie, British Literature>

11. **In this technique, a too-short sample or improperly-high gas flow rate can cause lock failure. A low-resolution version of this technique measures saturation recovery curves to determine the purity of a binary mixture. In most forms of this technique, shimming is used to improve homogeneity, resulting in a free induction decay with a smooth envelope. Aromatic rings usually create complex (\*) J-couplings in this technique that require a modified n+1 rule to predict. Many forms of this technique use tetramethylsilane as a standard. H1 and Carbon-13 are specific forms of this technique, in which each non-equivalent atom generates its own peak. For 10 points, name this form of spectroscopy where a sample is placed into a magnetic field primarily to identify different compounds.**

ANSWER: **NMR Spectroscopy** [or **nuclear magnetic resonance**; accept **proton NMR** or **Carbon-13 NMR**] <Bunker, Science - Chemistry>

-- This packet contains 22 tossups. Halftime is after tossup 11. --

12. **One country's efforts to focus blame from this conflict away from it saw it promote the work of Harry Elmer Barnes and Sidney Ray. This war is the subject of the final phase of battle analyzed in John Keegan's *The Face of Battle*. This war's loser had originally planned territorial expansion with its *septemberprogramm*. Interviews with participants in this war are collected in Peter Jackson's documentary (\*) *They Shall Not Grow Old*. The myth that a country lost this war because of internal strife is known as the "stabbed in the back" myth. The treaty that ended this war is analyzed in *The Economic Consequences of the Peace*, which analyzes its punitive "war guilt" clause. For 10 points, name this conflict ended by the Treaty of Versailles.**

ANSWER: **World War I** <Laurie, Other History>

13. **The empirical basis for theories in this practice was studied in a project named after Sheffield which lends credibility to Hobson's model. George Klein criticized a metatheory associated with this practice for being too reductionist which corresponded with a shift to a more hermeneutic view in this practice. One thinker primarily associated for developing a theory of this practice developed the idea of "objet petit a." That idea is argued to increase out sublime understanding of ideology according to Slavoj (\*) Žižek ["slah-voy zhee-zhek"]. That earlier thinker who worked in this discipline tried to create a transgressive concept related to a paradoxical pleasure known as jouissance. The founder of this practice created a concept in which young boys had an unconscious sexual desire for their mothers. For 10 points, identify this form of psychology associated with people like Jacque Lacan and Sigmund Freud.**

ANSWER: **psychoanalysis** [prompt on **psychology**] <Bunker, Psychology/Sociology>

14. **Frank Tenney Johnson is known for painting people of this profession using his namesake "moonlight technique." Norm Clasen contributed to an advertisement campaign led by Leo Burnett which often featured these people with the caption "come to where the flavor is." A Sam Abell photograph of these people was appropriated in a "rephotography" work of Richard Prince. An advertisement series featuring these people was created for (\*) Marlboro. A bronze sculpture of one of these people sits in the Oval Office and was given to Teddy Roosevelt as a gift. That sculpture features a man holding a quirt in one hand and reins in the other. For 10 points, Frederic Remington's *The Bronco Buster* features a man of what Old West profession riding a horse?**

ANSWER: **cowboys** [accept similar answers like **herders** or **ranchers**; prompt on *The Bronco Buster*] <Tsai, Other Visual>

15. **A buried message in this country mentioning the Branch Davidian church was found near the head of a nearly 2-mile-long geoglyph which mysteriously appeared in 1998 and is nicknamed "Marree Man." This country's 1844-foot-high Ball's Pyramid is the only remaining habitat of the Lord Howe stick insect. Mount Olga is the highest of the sandstone-covered domes which make up this country's Kata Tjuta ["choo-tah"] rock formation. This country's town of Coober Pedy, an (\*) opal-mining center, is known for its underground houses. "The Ghan," a train crossing this country, has its northern terminus in Darwin after passing through the city of Alice Springs. For 10 points, name this country whose "outback" is home to animals like dingos and kangaroos.**

ANSWER: **Australia** <Thompson, Geography>

16. **After a traveler to this city had a carpet stolen, a judge ruled that he had only dreamed of having it, and charged him three pieces of silver for interpreting his dreams. The Book of Revelation compares Jerusalem to this city when describing the death of the two witnesses. Along with Noah's survival of the flood, the saving of one inhabitant of this city is used as an example of God's ability to save the righteous while punishing the sinful in 2 Peter. God tasked Abraham with finding ten (\*) righteous people in this city, one inhabitant of which offered his two daughters to a mob who wished to rape his angelic guests. A woman was turned into a pillar of salt while fleeing, for 10 points, what city home to Lot, which was destroyed along with Gomorrah?**

ANSWER: **Sodom** <Thompson, Religion>

17. **One contemporary philosopher praised another's thought experiment about this concept by saying the argument was the "most radical and original skeptical problem that philosophy has seen to date." A philosopher noted for his work on this concept criticized the idea of "meaning as use" in a study of this concept and also differentiated between "derivative" and "explicated" meaning. One theory about this concept says it exists to help us (\*) picture things or agree with how the world is. H.P. Grice is primarily associated with a philosophy of this concept, which Ludwig Wittgenstein's "beetle in a box" thought experiment says there can not be a private example of. For 10 points, identify these entities which, to Wittgenstein, cause confusion in problems of philosophy: examples of which include German.**

ANSWER: **language** [accept **private language**, **language games**, **linguistic** confusion, **sprachspiel**, **picture theory of language**, etc.; anti-prompt on **sentences**, **conversational implicature**, or **conversation** by **asking** "can you be *less* specific?"] (first philosopher was Kripke on Wittgenstein) <Bunker, Philosophy>

18. **A GWAS by Nyholt et. al. identified risk loci for this disease near GREB1 ["grayb-one"], VEZT ["V-e-z-t"] and WNT4 ["wint-four"]. Elagolix was recently approved for this disease, which has a "deeply infiltrating" variant which can be treatment-resistant. When this disease affects the chest, it can cause catamenial pneumothorax. Powder-burn lesions are characteristic of this disease, as are chocolate cysts. This disease is treated with GnRH analogues like Lupron and the SPRM danazol, and it can also be treated by surgically removing (\*) implants and adhesions. Classic findings of this disease include pain on deep intercourse, a fixed retroverted uterus, cyclic pelvic pain and infertility. For 10 points, name this condition in which the lining of the uterus migrates outside of it.**

ANSWER: **endometriosis** <Mukherjee, Biology>

19. **This artist's nude paintings of Thomas McKeller, which were never exhibited during this artist's lifetime, have fueled rumors of his homosexuality. Rosina Ferrara was this artist's favorite muse, appearing in paintings like *Capri Girl on a Rooftop*. This artist used a red wall and an open door as the backdrop for his portrait of *Robert Louis Stevenson and His Wife*. In addition to her own portrait, Isabella Stewart (\*) Gardner owned this artist's painting depicting a Spanish dancer accompanied by guitarists. One portrait by this artist depicts a young socialite in a black satin dress, but the painting's scandalous reputation forced this artist to repaint her shoulder strap. For 10 points, name this painter of *El Jaleo* and *Portrait of Madame X*.**

ANSWER: John Singer **Sargent** <Tsai, Painting>

20. **An author from this country wrote a letter to Francis Bacon on behalf of a fictional author who had lost the ability to use language to express any ideas. Doctor Fridolin's wife fantasizes about a Danish soldier in a novella from this country adapted into Stanley Kubrick's *Eyes Wide Shut*. The Lord Chandos letter is by an author from this country who frequently collaborated with German composer Richard (\*) Strauss. Dr. B splits into the personas White and Black while playing himself in Chess in a novella from this country. Arnold Schnitzler, Hugo von Hofmannsthal and the author of *The Royal Game*, Stefan Zweig, are from this country. Turn-of-the-century authors frequented coffeeshops in, for 10 points, what country's capital of Vienna?**

ANSWER: Republic of **Austria** [or **Österreich**; or Republik **Österreich**] <Laurie, European Literature>

21. **One ruler of this city failed to sneak away from a siege dressed as a Swiss mercenary during an event known as the Treason of Novara. A ruler of this city invited an invading ruler before switching sides at the Battle of Fornovo. The Della Torre family lost rule of this city at the Battle of Desio, after which it was ruled by a family whose Castle was the site of the 1525 (\*) Battle of Pavia. The rule of one family in this city began after it overthrew the Golden Ambrosian Republic. The Visconti family ruled this city prior to a family that included a ruler who commissioned The Last Supper, who inaugurated the Italian Wars by inviting Charles VIII's invasion of Italy. For 10 points, the Sforza family ruled what Italian city, the capital of Lombardy.**

ANSWER: **Milan** <Laurie, European History>

22. **One anthropologist said the facial drawings of a tribe in this country show an ambivalence between hierarchical and egalitarian social structures. In addition to the Caduveo people, a tribe predominantly found in this country practice a coming of age ritual for girls where they are painted black and must jump over fire. One tribe in this country consists of just one man sometimes known as the "Man of the Hole." Yet another tribe found in this country and its northern neighbor has traditionally been depicted as (\*) violent by thinkers like Napoleon Chagnon. That tribe is also notable for its horizontal face paint and their use of natural fiber sticks on their faces. This country is the main focus of *Tristes Tropiques* by Claude Lévi-Strauss. For 10 points, name this country where the tribes of Yanomami and Ticuna live in the Amazon rainforest.**

ANSWER: Federative Republic of **Brazil** <Bunker, Anthropology>

## Bonuses:

1. In 1964, an all-black-and-white performance of this opera was directed by Luchino Visconti, who also featured it in the opening scene of his film *Senso*. For 10 points each:

[10] Name this opera. In Act 2 of this opera, Spanish gypsies perform a chorus that begins "Vedi! La Forsche" ["for-skay"] while striking anvils.

ANSWER: *Il **Trovatore*** [or *The **Troubadour***]

[10] Visconti also directed a 1966 production of *Falstaff* that was conducted by this man. This conductor's own operas include one with the oft-excerpted soprano aria "Glitter and Be Gay."

ANSWER: Leonard **Bernstein** (the opera is *Candide*)

[10] Visconti collaborated with Maria Callas for a production of *La Traviata*, which, like *Il Trovatore*, is by this Italian composer of *Otello* and *Rigoletto*.

ANSWER: Giuseppe **Verdi** <Laurie, Other Auditory>

2. A posthumously published book by this author follows a man who collects books he never reads and celebrates "sombre majesty of splendours no one knows." For 10 points each:

[10] Name this author of a so-called "factless autobiography," which follows the bookkeeper Bernardo Soares. Soares is credited as the author of *The Book of Disquiet*, but is actually one of the several semi-heteronyms of this author.

ANSWER: Fernando **Pessoa** [or Fernando António Nogueira **Pessoa**]

[10] Fernando Pessoa, the actual author of the *Book of Disquiet*, was born in this European country. This European country is the origin of *The Lusads*, which follows Vasco de Gama's journey to India.

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

[10] This Pessoa heteronym was a monarchist who went to exile in Brazil after a failed rebellion. He is the namesake of some odes by Pessoa, and Jose Saramago wrote a book about *The Year of the Death of [this character]*.

ANSWER: **Ricardo Reis** [accept either underlined name; or *The Year of the Death of **Ricardo Reis***] <Bunker, European Literature>

3. Kendrick Lamar once said, "Imagine if your first blunt had you foamin' at the mouth" to explain why he no longer smokes. For 10 points each:

[10] That blunt was laced with this addictive stimulant drug made from the leaves of a South American plant. It reduces appetite in the long term and can cause Parkinson's disease.

ANSWER: **cocaine** [or reasonable slang alternatives]

[10] There are currently no government-approved medicines to treat cocaine addiction, but researchers are testing this medicine used to treat chronic alcoholism. It causes unpleasant effects such as headache, nausea, or breathing difficulty if even a small amount of alcohol is consumed.

ANSWER: **disulfiram** [or **antabuse**]

[10] Cocaine use can also cause this symptom by triggering stimulation of adrenergic receptors that cause the contraction of radially arranged muscle fibers. Drugs such as Tropicamide are used in medicine to cause this symptom.

ANSWER: **mydriasis** [or **pupil dilation**] <Ranganathan, Biology>

4. Chateaubriand called this man's embrace of Louis-Philippe in the tricolore flag a "coronation by a republican kiss." For 10 points each:

[10] Name this "Hero of Two Worlds" who embarked on an 1824 tour of all 24 US States. He returned to France on the USS *Brandywine*, named for the battle at which he was wounded whilst fighting for the American colonies.

ANSWER: Gilbert du **Motier**, Marquis de **Lafayette** [accept either underlined portion]

[10] The Marquis de Lafayette is the subject of an upcoming biography by this historian and podcast host who has produced both *The History of Rome* and *Revolutions* podcasts.

ANSWER: Mike **Duncan**

[10] Louis-Philippe's ascension was aided by support from this industry, whose leaders included Jacques Lafitte, who declared "from now on, [this industry] will rule." Claude Perier ["pear-ee-ay"], a titan of this industry, hosted the revolutionary Assembly of Vizile at his castle.

ANSWER: **banking** [accept word forms] <Laurie, European History>

5. Sylviane Diouf compared the Muslim call to prayer with "Levee Camp Holler," a song in this genre, to argue for the influence of Islam on them. For 10 points each:

[10] Name this genre of songs, which makes up the repertoire of the Fisk Jubilee Singers, who recorded a landmark 1909 rendition of "Swing Low, Sweet Chariot."

ANSWER: **spirituals** [accept African-American **spirituals** or Negro **spirituals**; prompt on any answer describing songs related to American slaves]

[10] The Fisk Jubilee Singers' "Glee Club style" was criticized by this author in *The Sanctified Church*. This author recounted the story of the last survivor of the Middle Passage, Cudjo Lewis, in *Barracoon: The Story of the Last "Black Cargo"*.

ANSWER: Zora Neale **Hurston**

[10] Many spirituals have alleged double meanings, serving both as songs and as guides for slaves to escape slavery via this system of interconnected safe houses.

ANSWER: **Underground Railroad** <Laurie, Other Academic>

6. John O'Neill led forces against the first post-industrial force entirely composed of Canadians at the Battle of Ridgeway during a series of raids led by a namesake "Brotherhood" of this word. For 10 points each:

[10] Give this word. Three men executed for the murder of police officer Charles Brett became known as the "Manchester Martyrs" during an 1867 Rising named for this word.

ANSWER: **Fenian** [accept **Fenian** Rising of 1867 or **Fenian Raids**]

[10] The Fenian Brotherhood formed in the aftermath of a failed Young Ireland uprising in this year. Louis Philippe's government was toppled in this year, which also saw Lajos Kossuth's ["lye-osh kosh-oot's"] Hungarian Revolution.

ANSWER: **1848**

[10] During the Fenian Rising, Michael Barrett became the last man publicly hanged in Britain after leading an attack on one of these places in Clerkenwell. "Rent arrears" were the subject of an agreement signed by Charles Parnell and William Gladstone named for one of these places in Kilmainham ["kill-MAIN-am"].

ANSWER: **prisons** [or **jails** or **gaols**] <Thompson, Other History>

7. When one man was asked why he wanted to reach this location, he replied "Because it is there". For 10 points each:

[10] Identify this location, the goal of an expedition by George Mallory and Sandy Irvine, who died trying to reach it. The Sherpa Tenzing Norgay eventually became one member of the first pair to successfully reach this location.

ANSWER: (the summit of) Mount **Everest** [or **Sagarmatha** or **Chomolungma** or **Zhumulangma**]

[10] All climbers on Everest's northeast route pass by this landmark located in a small cave at about 27,900 feet. British mountaineer David Sharp's death by hypothermia might have been partially caused by passing climbers believing him to be this landmark and thus not offering assistance.

ANSWER: **Green Boots** [or the **body** of Tsewang **Paljor**, prompt on answers that just indicate that it's a body]

[10] The final major obstacle that climbers face before reaching the summit is this 12-foot-high rock wall, named for one of the first men to reach the top of the mountain.

ANSWER: **Hillary Step** <Thompson, Geography>

8. Answer some questions about works of art which feature the physical remains of animals. For 10 points each:

[10] The sale of an artwork by this artist is a felony because it features a taxidermied bald eagle, forcing it to be donated to the Museum of Modern Art by the heirs of Ileana Sonnabend after her death.

ANSWER: Robert **Rauschenberg**

[10] Damien Hirst is known for works like *Death Denied* and *The Physical Impossibility of Death in the Mind of Someone Living*, which both feature this marine animal suspended in formaldehyde. A John Singleton Copley painting depicts *Watson and [one of these animals]*.

ANSWER: **sharks** [accept any specific kind of **shark**]

[10] Though not made from a real horse, this black artist recently unveiled an equestrian sculpture of a man in jeans and a hoodie in Times Square. He also painted Barack Obama's presidential portrait.

ANSWER: Kehinde **Wiley** <Thompson, Other Visual>

9. This word appears in the title of a poem that describes a soldier who loathed "the strangled horror / And butchered, frantic gestures of the dead" and fights the "flapping veils of smothering gloom" as he dies at the poem's end. For 10 points each:  
[10] Give this word. It also titles a poem that describes "hope... Floundering in mud" before ending with the line "O Jesus, make it stop!"

ANSWER: **attack** [accept "Counter-**Attack**"]

[10] Both "Attack" and "Counter-Attack" are by Siegfried Sassoon, who befriended this other poet during World War I. He described "the old Lie" in his poem "Dulce et Decorum Est."

ANSWER: Wilfred **Owen**

[10] Despite his protests, Sassoon avoided being court-martialed after this author's intervention. This author described serving in the Royal Welch Fusiliers with Sassoon in his memoir *Good-Bye to All That*, which details his own wounds at the Somme.

ANSWER: Robert **Graves** <Laurie, British Literature>

10. One thinker challenged an Asharite conception of this figure by asserting that if there were multiples of this figure, one could thwart the other. For 10 points each:

[10] Identify this figure which Maimonides said could only be described negatively. Subsequent philosophers have identified this figure with Aristotle's first cause or prime mover.

ANSWER: **God** [accept **Yahweh** or **Allah**; prompt on "the **divine**" or equivalents]

[10] Aristotle's "proof" for God's existence falls into this general class of argument. William Lane Craig helped popularize a Kalam argument of this type based on the writings of Al-Ghazali which asserts that since everything has a cause and the universe began to exist, it also has a cause.

ANSWER: **cosmological** argument

[10] This thinker's proof for God's existence utilizes the notion of contingency. Since everything in the universe that exists is contingent and does not necessarily exist, the universe has an initial cause: God.

ANSWER: **Avicenna** [accept Abu 'Ali al-Husayn ibn Abd Allah ibn Al-Hasan ibn Ali **ibn Sina**] (the unnamed thinker in bonus lead-in was Averroes) <Bunker, Philosophy>

11. Pencil and paper ready (although definitely not necessary). The  $n$ th Catalan number is equal to this function of  $n$  divided by the quantity " $n$  plus one". For 10 points each:

[10] Identify this function, which is equal to the sum of the squares of the elements of the  $n$ th row in Pascal's triangle. Note that the answer should be an expression in terms of  $n$ , not a general function like "cosine."

ANSWER:  **$2n$  choose  $n$**  [or mathematical equivalents, accept  **$2n$  factorial divided by  $n$  factorial squared** or mathematical equivalents]

[10] Assuming that Pascal's triangle is drawn in the standard manner with bilateral symmetry, numbers of the form  $2n$  choose  $n$  will be located in what positions? A general answer is acceptable.

ANSWER: the **centers** of the even-numbered rows [accept any answer indicating the **center** or the **middle**]

[10] What is the value of  $2n$  choose  $n$  when  $n$  equals 2, that is, the number of ways to choose two distinct things from a set of four things? Remember that it's equal to four factorial divided by the square of two factorial.

ANSWER: **6** <Thompson, Mathematics>

12. Lillian Hellman traced Dashiell Hammett's belief that his society was corrupt to the murder of a labor organizer striking against this industry; Hammett was originally offered \$5,000 to kill that man. For 10 points each:

[10] Name this industry. Frank H. Little was killed organizing against the Anaconda Mining Company, a corporation in this industry which supplanted the three "Kings" of it that had dominated the area around Butte around the turn of the century.

ANSWER: **copper** [accept **copper** mining]

[10] Copper mining became a major industry in the US after its boom in this state's Upper Peninsula.

ANSWER: **Michigan**

[10] The discovery of copper in the Upper Peninsula helped offset the economic costs of Michigan's loss in this bloodless war, which saw the namesake strip awarded to Ohio after the Frostbitten Convention.

ANSWER: **Toledo** War <Laurie, American History>

13. This essay lists "stand up for the student and crazy" and "argue not concerning God" among commands given to "you," whose "flesh shall be a great poem." For 10 points each:

[10] Name this essay. It declares that "the proof of a poet is that his country absorbs him as affectionately as he has absorbed it."  
ANSWER: the **preface** to *Leaves of Grass* [accept **introduction** in place of **preface**; prompt on **preface** or **introduction** with "to what work?"]

[10] The preface lists people in this profession among the "lawgivers of poets." Whitman declares "how soon unaccountable I became tired and sick" and wanders off alone after hearing a lecture by a person in this profession.

ANSWER: **astronomer** [accept "When I Heard the Learn'd **Astronomer**"]

[10] Whitman's fusion of the individual and the whole of humanity is largely expressed in a poem titled a "Song of" this person, in which Whitman declares "I am large, I contain multitudes." The speaker celebrates and sings this person in the poem.

ANSWER: **myself** [accept "Song of **Myself**"] <Laurie, American Literature>

14. A 330-million-year old deity named "El Cantare" ["ell kahn-tah-ray"] is the object of worship of Happy Science, a religious movement in this country that a Vice article decried as the "laziest cult ever". For 10 points each:

[10] Name this country where so-called "new religions" have gained substantial followings since World War II. One of the most popular of those movements conducts a worship service around a pillar called the Kanrodai, said to be built at the site of creation.

ANSWER: **Japan** [or **Nippon**]

[10] This new religion founded by Shoko Asahara taught that an imminent apocalyptic event would kill everyone except its members. It perpetrated a 1995 nerve gas attack on the Tokyo subway, the deadliest terror attack in Japanese history.

ANSWER: **Aum Shinrikyo** [prompt on **Aum**; prompt on **Aleph** or **Hikari no Wa** by asking "what were they formerly known as?"]

[10] Most new religions are influenced by this former official state religion of Japan, which venerates spirits known as *kami* at various shrines.

ANSWER: **Shintoism** <Thompson, Religion>

15. In one artwork from this movement, a bald, bearded man in blue kneels before the title robed figure. For 10 points each:

[10] Name this artistic style exemplified by *Joseph in Egypt* and *The Deposition of the Cross*, two paintings by Jacopo Pontormo.

ANSWER: **Mannerism** [or **Late Renaissance**]

[10] Pontormo's student Rosso Fiorentino started a Mannerist school in and commonly named for this city, which was a hub of Northern Mannerism.

ANSWER: **Fontainebleau** or [School of **Fontainebleau**; or École de **Fontainebleau**]

[10] The heart of the Mannerist movement sought to return to a style similar to that of this earlier artist who painted *The Creation of Adam* on the ceiling of the Sistine Chapel.

ANSWER: **Michelangelo** di Lodovico **Buonarroti** Simoni [accept either underlined part] <Rodriguez, Painting>

16. This organism's habit of not digesting its food, which included members of its own species, has led to some fossils being found with undigested remains of fish. For 10 points each:

[10] Name this large extinct genus of fish which was a multi-jawed placoderm and grew up to 10 meters long. Living around 360 to 380 million years ago, it and *Titanichthys* are among the first predatory fish in the fossil record.

ANSWER: **Dunkleosteus** [dun-kle-ost-eus]

[10] *Dunkleosteus* terrorized the seas during this Paleozoic period that is often known as the "Age of the Fish." This period, which followed the Silurian, saw the introduction of free-sporing vascular plants.

ANSWER: **Devonian** period [accept answers like Early, Middle or Late **Devonian**]

[10] This group of arthropods mostly died out during the Devonian. Similar to the extant horseshoe crab, their fossils are notable for their abundance and are commonly used as index fossils.

ANSWER: **trilobites** <Bunker, Other Science>



17. A large one of these animals who lives in Llyn Llyw ["thlin thlee-oo"] guides Cai ["kye"] and Bedwyr ["bed-weer"] to the prison of Mabon ap Modron, so that he can aid Culhwch ["kill-hookh"] in hunting the magical boar Twrch Trwyth ["toorkh troo-ith"]. For 10 points each:

[10] Identify these animals. In a story from another myth system, a boy licks his thumb to soothe the pain after he burns it while cooking one of these animals.

ANSWER: **salmon** [or **bradáin**, prompt on **fish** by asking "what type of fish?"]

[10] The hunt for the Twrch Trwyth is carried out by Culhwch with the aid of some of King Arthur's knights in order to win the hand of this woman, the daughter of the giant Ysbaddaden ["us-BATH-add-en"].

ANSWER: **Olwen**

[10] The Salmon of Knowledge, meanwhile, was eaten by this Irish mythological hero after he accidentally consumed its oil while licking his thumb.

ANSWER: **Finn MacCool** [or **Fionn Mac Cumhail**, which is pronounced the same way] <Thompson, Mythology>

18. Kurt Masur and Pierre Boulez were modern practitioners of this performance practice. For 10 points each:

[10] Name this unusual performance choice. Valery Gergiev typically performs in this way, but sometimes uses a toothpick.

ANSWER: conducting with **no baton** [or conducting with their **hands**; accept clear knowledge equivalents]

[10] One of the most famous conductors that eschews the baton is this conductor, long associated with the Philadelphia Orchestra. This man conducted the original *Fantasia* in 1940.

ANSWER: Leopold (Anthony) **Stokowski**

[10] Regardless of the baton, many conductors use fixed patterns to indicate this element of the music. Simple ones of these include the "common" 4/4 ["four-four"], which indicates how many beats are in each measure.

ANSWER: **time** signature [or **meter** signature] <Tsai, Classical Music>

19. Answer the following about mechanics based on the absurd physics engine of *Super Mario 64*, for 10 points each.

[10] In the game, Mario's value for this quantity while in the air usually caps out at -75 unless he is twirling or on fire. In real life, this value for a falling object is reached when the sum of the forces opposing gravity such as air resistance equals the weight of an object.

ANSWER: **terminal velocity** [prompt on just "**velocity**"]

[10] To calculate the radius of a Bob-omb's ["buh-bomb"] explosion, one could try to measure the "stem" named after this scientist which is the resulting shock wave of an explosion. A reflection named after this scientist occurs in steady flow when his namesake stem is convex to the flow.

ANSWER: Ernst **Mach**

[10] As in many video games, this process is done by the game's physics engine to check if Mario is next to a surface or wall (which doesn't always work as he can still fall through the ground.) This process, often done in physics simulations, is aided in simple settings by axis-aligned bounding boxes.

ANSWER: **collision detection** [prompt on **boundary detection**] <Bunker, Physics>

20. One character in this novel moves out of his previous room and finds that he and his new roommate Itoh are both avid fans of Boris Vian. For 10 points each:

[10] Name this novel, which ends with Toru considering the question "where are you now?" after declaring his love for Midori. This novel details Toru's life after his best friend commits suicide on his 17th birthday.

ANSWER: **Norwegian Wood** [or **Noruei No Morei**]

[10] In *Norwegian Wood*, Reiko formerly worked in this profession before she was accused of being a lesbian by a thirteen-year-old student, whom she slapped across the face.

ANSWER: being a **piano teacher** [or **teaching piano**; or any answer that mentions the idea of **instructing** someone on how to play the **piano**; or words forms, such as she **taught piano**; prompt on **teacher** or music **teacher** or **instructor**]

[10] This author of *Norwegian Wood* also broke up a novel into sections like "The Thieving Magpie" and "Bird as Prophet" in *The Wind-up Bird Chronicle*.

ANSWER: Haruki **Murakami** [do NOT accept or prompt on "Ryu Murakami"] <Rodriguez, World/Other Literature>

21. Jose Maria Morelos, a Mexican Revolutionary who was one of these people, issued the *Sentimientos de la Nación*, which blended Mexican nationalism with nationalism among these people. For 10 points each:

[10] Name these people, who ranked just under the *peninsulares* in the Mexican caste system. Unlike *peninsulares*, despite having near or full Spanish heritage, they were not actually born in Iberia.

ANSWER: **criollos** [note that this is pronounced ["cre-oy-os"] in Spanish; prompt on **creoles**]

[10] The early stages of the Mexican revolution, while it was led by this man, did not feature many criollos. This man's "Cry of Dolores" is generally considered the start of the Mexican War of Independence.

ANSWER: Manuel Hidalgo y **Hidalgo** [Father **Hidalgo**]

[10] Vicente Guerrero, an Afro-Mexico criollo leader alongside Morelos who served as the Second President of Mexico, was supported and then opposed by this Mexican general who won the Battle of the Alamo before losing at San Jacinto ["hah-sin-toh"].

ANSWER: Antonio Lopez de **Santa Anna** <Laurie, World History>

22. Popular Python packages in this subfield include the ultra-optimized SpaCy ["spacey"] and Stanford's group in this subfield produces a Core toolkit. For 10 points each:

[10] Name this subfield of computational linguistics where the BERT algorithm is making headway for its handling of contextual language. Simple tasks in this subfield include sentiment analysis or textual classification.

ANSWER: **natural language processing** [or **NLP**; accept word forms like **NLTK** or Core**NLP**; do NOT accept "neuro-linguistic programming"]

[10] Using its statistical model, SpaCy can be used to tag this class of objects based on the word's context. Members of this class of things include adjectives, nouns and verbs.

ANSWER: **parts of speech** [accept **PoS** tagging or **POST**]

[10] An algorithm about recognizing these other objects extracts them from sentences after tokenization and assigns labels like "NNP" or "CD." These objects include the company Apple, but not the fruit, and Steve Jobs but not the word "job."

ANSWER: **named entities** [accept **NER**; prompt on **proper nouns**] <Bunker, Linguistics>