

PRISON BOWL XI: WE LOVE NO FISH

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PACKET ELEVEN

Tossups

1.

The Battle of Wild Fox Ridge occurred after one commander passed through this location. Supposedly, because a rebellion’s leader raped the wife of the general guarding this location, he allowed Dorgon to cross it to end the rebellion. That general later rebelled in the Revolt of the Three Feudatories and was (*) Wu Sangui. Due to a former section now decaying, the Jade Pass is commonly not considered a part of this feature. Jiayuguan and Shanhaiguan mark the ends of this structure, and its current version dates to the Ming Dynasty, with initial construction ordered by Qin Shi Huangdi. For 10 points, name this fortification, the longest man-made structure in the world.

ANSWER: the **Great Wall** of China <DM>

2.

After Cu Chulainn (“koo HUH-lin”) tasted some of this substance, he could not marry Derbforgaill. In *The Kalevala*, Lemminkainen’s mother notices this substance on her son’s hairbrush. Sigurd dug a series of trenches in the ground to avoid touching this substance. Kali used her tongue to stop some of this substance belonging to the demon Raktabija from touching the (*) ground. Dwarves in Norse myth mixed a sample of this substance belonging to Kvasir with honey to create the Mead of Poetry. The goddess Aphrodite created the first anemones by mixing nectar with this substance of the slain Adonis. For 10 points, name this substance that Heracles used to make his arrows lethal by after slaying the Hydra.

ANSWER: **blood** <AJ>

3.

One disease of this organ has cell types sorted by the Callender system and can be treated with Mohs surgery. Excess water and minerals can be removed through merocrine glands in this organ, which contains arrector pili muscles. Meissner’s corpuscles serve a (*) sensory application in this organ. The Mantoux test for tuberculosis is performed on this organ, which stores fat in the subcutaneous layer. In fish, amphibians, and reptiles, pigment is stored in this organ by chromatophores, and this organ can change size to aid in camouflage. For 10 points, name this largest organ of the body which includes the dermis and epidermis.

ANSWER: **skin** [anti-prompt on **dermis** and **epidermis** until mention] <AJ>

4.

This character orders a hunting group not to shoot a white hare in the work in which he appears, and at a party attended by Lady Monmouth, this character faints when he sees the sailor James in the window. This character hires Alan Campbell for one task, and an opium addict refers to this character by the nickname (*) “Prince Charming.” After watching a substandard performance of *Romeo and Juliet*, this character breaks up with Sibyl Vane. This character is mentored by Lord Henry Wotton, and stabs a portrait by Basil Hallward in the work he appears in. For 10 points, name this title character of a novel about a “picture” by Oscar Wilde.

ANSWER: **Dorian Gray** [accept either; do not accept “*The Picture of Dorian Gray*”] <RY>

5.

A faint diagonal line connects the eyes of two characters wearing beaded necklaces in this painting. Three overlapping circles in this painting meant to depict celestial objects include a red crescent moon in the lower left hand corner. A pale hand with a ruby ring holds a flowering plant directly under the red-lipped mouth of another figure in this work. In the background of this painting, a black-clad man carries a (*) scythe next to an upside-down violinist. A goat faces a green-faced man in front of the row of colorful houses in the title location. For 10 points, name this “narrative self-portrait” named for the town of Vitebsk and the work’s artist, Marc Chagall.
ANSWER: *I and the Village* <GA>

6.

In 2012, David Deutsch published a book titled *The Beginning of this word*. George Gamow described the limits of one African people’s language at the beginning of a work titled *One Two Three . . . this word*. In a 1913 article by Émile Borel, this word describes a group of (*) monkeys which name a theorem. Colloquially, the word “grand” is replaced by a form of this word in the name of a thought experiment described by David Hilbert about a hotel. Zeno’s dichotomy paradox involves splitting a distance in half this many times. For 10 points, name this mathematical concept greater than any natural number.
ANSWER: infinity [or an infinite number; prompt on equivalents] <CL>

7.

V. Gordon Childe’s criteria for an ancient type of these things include taxation collected for a deity or king. Ebenezer Howard’s work *To-Morrow: A Peaceful Path to Real Reform* described one of these things, which were also the focus of Lewis Mumford. The concept of “eyes on the street” was developed in relation to these things. Another theory about these things argues that their role in (*) import replacement is crucial to economic growth. One movement was named for the “garden” type of these things, and *The Death and Life of Great American [ones]* titles a work of Jane Jacobs. For 10 points, identify these urban centers, examples of which are named for Oklahoma and New York.
ANSWER: cities [or city; prompt on urban center until mention; prompt on metropolitan areas or metropolis] <CL>

8.

439 people died in one of these locations in Senghenydd. The German customs union of the mid-19th century was named after one of these locations in Westphalia, namely, the Zollverein. A violent incident at one of these locations involving the Colorado National Guard prompted John D. Rockefeller to hire William Mackenzie King as a PR expert. That incident was dubbed the (*) Ludlow Massacre. Arthur Scargill led a 1984 strike at these locations broken up by Margaret Thatcher. The good produced in these places comes in bituminous and anthracite types. For 10 points, name these locations which produce a fossil fuel crucial in the Industrial Revolution.
ANSWER: coal mines [prompt on mines; generously prompt on locations mentioning coal] <BL>

9.

Lockheed Martin recently received a contract from the U.S. government to build a system based on these devices. These devices will have jumps in their mode spectrum if their temperature is not kept stable. A type of these devices dimerizes halides using an electrical current, while other types may use mixtures of (*) noble gases. These devices can be used to cool individual atoms by minimizing their vibrations. These devices tend to produce low frequencies because higher frequencies require higher rates of electron pumping. For 10 points, name these devices which produce a coherent stream of photons.
ANSWER: lasers [accept light amplification by stimulated emission of radiation] <AJ>

10.

In one work by this writer, a character is “chased by a horrible thing / which raced sideways while blowing bubbles,” and he also wrote a play named for Santa Claus. One of his poems describes women who are “unbeautiful and comfortable minds” and live in Cambridge. This writer of “i (*) carry your heart with me” and “maggie and milly and molly and may” asks, “how do you like your blue-eyed boy / Mister Death[?]” in another poem. The phrase “(with up so floating many bells down)” follows the title of another of his poems, “anyone lived in a pretty how town.” For 10 points, name this poet known for his unique use of grammar, punctuation, and capitalization.

ANSWER: e e cummings [accept Edward Estlin Cummings] <CL>

11.

In this decade, the Great New England Hurricane hit Long Island, the worst hurricane ever to strike the Northeast. A hurricane in this decade permanently damaged the Overseas Railroad and destroyed Islamorada and the other Upper Keys. In this decade which included the Labor Day Hurricane, the (*) Shelterbelt attempted to mitigate an event that led to “black blizzards.” Resulting from the false adage that “rain follows the plow,” deep plowing in the Great Plains caused topsoil to be blown away in dust storms in this decade. For 10 points, name this decade, in which the Dust Bowl exacerbated the Great Depression.

ANSWER: 1930s [accept the Dirty Thirties; prompt on ‘30s] <DM>

12.

In one episode, a character with this first name drives to Oberlin to corner Carmen Tibideaux. A different character with this first name exclaims, “It’s not that common, it doesn’t happen to every guy, and it is a big deal!” A character with this first name discovers her mother is Shelby Corcoran, with whom she then (*) sings “Poker Face.” That character has an on-and-off relationship with Finn Hudson. A controversy surrounding a character with this first name who works at Bloomingdale’s focuses on whether or not she and Ross were on a break. For 10 points, identify this first name of a character with the last name Berry on *Glee* and a character with the last name Green on *Friends*.

ANSWER: Rachel [accept Rachel Berry or Rachel Green] <CL>

13.

In one work by this author, the Greek woman Mariana employs Zohra at the title guest house, *Miramar*. This author created Dr. Booshy, a dentist who steals false teeth from dead bodies. When one of this author’s characters leaves the house to pray, she fractures her (*) collarbone on the way home when she is hit by a car. This author represented the three Abrahamic religions in *The Children of Gebelawi* and follows Amina and other members of ‘Abd al-Jawad’s family over the course of three books: *Palace of Desire*, *Sugar Street*, and *Palace Walk*. For 10 points, name this Egyptian author of the *Cairo Trilogy*.

ANSWER: Naguib Mahfouz <CL>

14.

The song “The Heavenly Life” inspired a work by this composer that begins with a theme played by flutes and sleigh bells. In another work by this composer of *The Song of Lamentation*, a trumpet solo begins a C-sharp minor funeral march. This composer’s settings of *Des Knaben Wunderhorn* include the “Urlicht” fourth movement of one work, and his first symphony takes its title from a Jean (*) Paul novel. This composer set Friedrich Rückert poems to music in *Kindertotenlieder*, and he included three hammer blows in the finale of his 80-minute long *Tragic Symphony*. For 10 points, name this Romantic-era composer of the *Song of the Earth* and *Symphony of a Thousand*.

ANSWER: Gustav Mahler <GA>

15.

This mineral can be used to treat cancer by absorbing excess fluid in the thoracic wall. Chemically, this mineral is hydrated magnesium silicate, and this metamorphic mineral is the primary component of soapstone. This mineral can be distinguished by a greasy touch and white streak, and while it's not chalk, its (*) drying properties are often used by basketball players. Lawsuits regarding a product made from this material were lost by Johnson and Johnson for likely causing ovarian cancer. For 10 points, name this mineral that defines the hardness of one on the Mohs scale, once the primary ingredient in baby powder.

ANSWER: talcum <DM>

16.

A common misconception is that this instrument is featured in "See My Friends" by The Kinks. Methods of playing this instrument, which plays the opening riff in "Paint It, Black," include da, ra, and dir and can be performed with a mezbab, which is a type of plectrum. "Within You Without You" and "Love You To" feature this instrument, which may have between eighteen and twenty-one (*) strings, most of which are sympathetic. This instrument is often accompanied by the tabla and tanpura while playing ragas. George Harrison played this instrument for the recording of "Norwegian Wood." For 10 points, name this instrument used in Hindustani classical music and played by Ravi Shankar.

ANSWER: sitar <AJ>

17.

The last pre-colonial ruler of this city was Kosoko and held the title oba. The Portuguese possibly named this city after a major port near the tip of Iberia. With a major port sheltered by a namesake lagoon, this African city consists of "Mainland" and "Island" portions, the latter of which includes Victoria Island and a namesake island. This city is south of Ibadan, within (*) Yorubaland. This city lies 50 miles from Porto-Novo, and it was part of the Kingdom of Benin prior to British rule. The largest city in Africa, for 10 points, name this city, a national capital until its 1991 replacement by Abuja, which is currently the largest city in Nigeria.

ANSWER: Lagos, Nigeria <DM>

18.

This event's success was to be followed by a "Hunger Plan" that was detailed in a Green Folder. Major early fighting in this event, which notably started on June 22nd, took place at Bialystok. A smaller force in this event attacked from the North in the Continuation War. The final stage in this event was codenamed Operation (*) Typhoon and commanded by Fedor von Bock. A delay of Army Group Centre around Kiev took place at this event, which violated the Molotov-Ribbentrop Pact between Stalin and Hitler. For 10 points, name this Nazi invasion of the Soviet Union named after a medieval king with a red beard.

ANSWER: Operation Barbarossa [accept Nazi invasion of the Soviet Union or equivalent descriptions until mention; accept Axis or German and equivalents in place of "Nazi"; prompt on partial description until mention] <BL>

19.

After a romantic scene in this novel, one character pushes a woman's clothes through a ventilator after calling her an "impudent strumpet." Mitsima teaches one of this novel's characters how to work with clay, and that character watches *Three Weeks in a Helicopter* and is reminded of Linda and Popé's relationship. After being impregnated by the Director of (*) Hatcheries and Conditioning, one woman in this novel is relocated from New Mexico, where her son often quotes Shakespeare, by Lenina Crowne and Bernard Marx. In this novel, Mustapha Mond helps run a society where people undergo Bokanovsky's Process and take the drug soma. For 10 points, name this dystopian novel by Aldous Huxley.

ANSWER: Brave New World <AL/CL>

20.

While conducting geographical surveys, this scientist used a barometer to determine the heights of the mountains in a lake-filled area. One law by this scientist was expanded upon by Amagat's Law, which defines the extensive volume of a certain mixture. This scientist's medical interest in his own (*) colorblindness led to his name being used as an alternate term for it. In addition to stating the law of multiple proportions, this scientist developed a "billiard ball" atomic model determining that all elements were made of atoms. The namesake of the atomic mass unit, for 10 points, name this early 19th-century scientist who names the law of partial pressures.

ANSWER: John Dalton <AJ>

TB.

This author made fun of an immigrant's accent in one poem: "Whenever he wanted to say advantages, he said hadvantages". This poet praises his hometown as a "little jewel of islands and peninsulas". In another poem he boasts in order to "make myself a more fortunate man for a girl," but ends up (*) embarrassing himself. In a poem in which he mimics Sappho, this poet is jealous of a man watching his lover laugh. This poet asks for "As great a number [of kisses] as there is sand in Libya." He wrote many switching views on his lover, going from "Let us live and let us love!" to "I hate and I love." For 10 points, name this Roman poet who wrote about Lesbia.

ANSWER: Gaius Valerius Catullus <DG>

Bonuses

1.

Contrary to a statement President Trump made about cancelling his trip to the U.K., the decision about relocating an embassy in this city was made by President George W. Bush. For 10 points each:

[10] Identify this British capital city. Boris Johnson was the mayor of this city from 2008 to 2016.

ANSWER: **London**

[10] This Labour Party Mayor of London is the first Muslim mayor of a major Western capital. In a jab at Trump, he called the White Pendragons who tried to perform a “citizens’ arrest” on him in January “very stable geniuses.”

ANSWER: Sadiq (Aman) **Khan**

[10] Another instance of the word “stable” in British politics was this candidate’s 2017 manifesto: “strong, not entirely stable leadership.” This Gremloid candidate was most recently played by Jonathan David Harvey.

ANSWER: Lord **Buckethead** <CL>

2.

This element is the most common element in the universe. For 10 points each:

[10] Name this element with one proton and one electron which commonly forms a diatomic gas and can be found along with carbon in alkanes.

ANSWER: **hydrogen** [prompt on **H**]

[10] This isotope of hydrogen consists of one proton, one neutron, and one electron. It is the heaviest stable isotope of hydrogen.

ANSWER: **deuterium** [prompt on **hydrogen-2**; prompt on **heavy hydrogen**; prompt on **D** or **²H** (“2 H”)]

[10] Deuterium oxide can be used in this role, although most reactors use water instead. Nazi Germany’s military program suffered because the cheap graphite they used in this role failed.

ANSWER: **neutron moderators** [accept word forms; prompt on partial; prompt on descriptions of **slowing neutrons** and equivalents; prompt on descriptions of creating **thermal neutrons** and equivalents] <BC>

3.

In the premiere of the first three movements of this composer’s requiem, the timpanist accidentally misread some tempo markings as fortissimo, drowning out the rest of the orchestra. For 10 points each:

[10] Name this German composer of a “Cradle Song” and twenty-one *Hungarian Dances* who will always be considered the least of classical music’s “three B’s.”

ANSWER: Johannes **Brahms**

[10] Upon receiving an honorary degree from the University of Breslau, Brahms wrote this joyous concert overture that quotes the graduation song “Gaudeamus igitur.” This work was paired with the contrasting “Tragic Overture.”

ANSWER: **Academic Festival Overture** [accept **Akademische Festouvertüre**]

[10] The first movement of Brahms’ violin concerto features a long section in which the solo instrument performs this musical technique. A complex version of this technique known as a “bell chord” involves holding individual notes for different periods of time.

ANSWER: **arpeggio** [accept **arpeggiated** chord; prompt on **broken chords**] <GA>

4.

This kingdom was defeated in 1220 and 1221 by Subotai and Jebe. For 10 points each:

[10] Name this kingdom which reached its greatest extent under Queen Tamar the Great. David IV conquered its lands from the Seljuks, and Joseph Stalin was born in what is now the country that shares a name with this kingdom.

ANSWER: Kingdom of **Georgia** [accept **Sakartvelo**]

[10] Prior to the Mongol attack, Georgia had intended to send its troops to help the fifth of these military campaigns, which sought to end Muslim control of the Near East. The third of them pitted Richard I against Saladin.

ANSWER: **crusades**

[10] Prior to the establishment of the Kingdom of Georgia, a region east of Colchis and north of Armenia was ruled by a kingdom, then a principality, of this name. It shares its name with a modern European airline.

ANSWER: **Iberia** [or **Kartli**] <DM>

5.

In this novel, Waverly becomes a national chess champion at age nine. For 10 points each:

[10] Identify this novel about four mothers who form the title group, as well as their daughters, including Rose and Lena. At the beginning of this novel, June takes her late mother's place in it.

ANSWER: *The **Joy Luck Club***

[10] *The Joy Luck Club* is by this contemporary American author of *The Kitchen God's Wife*. This author focuses on mothers and daughters, and has faced some criticism for often depicting Chinese culture through stereotypes.

ANSWER: Amy **Tan**

[10] Amy Tan's most recent novel is titled [*one of these places*] of *Amazement*. Psalm 23 refers to one of these places "of the shadow of death."

ANSWER: **valleys** [accept *The **Valley of Amazement***; accept **Death Valley**; accept the **valley** of the shadow of death] <CL>

6.

Even functions have this property with respect to the y-axis. For 10 points each:

[10] Identify this general mathematical property which may be reflectional, rotational, point, translational, etc. Human anatomy has the bilateral form of this property.

ANSWER: **symmetry** [accept word forms]

[10] A property sometimes known as expanding or evolving symmetry is possessed by these self-similar mathematical objects. Benoit Mandelbrot worked with these objects, which include the Koch snowflake.

ANSWER: **fractals**

[10] One of Mandelbrot's first papers on self-similarity asked how large this value was. That paper on this value dealt with the idea that the smaller the scale used to measure it, the greater it seems.

ANSWER: length of the **coast** of (Great) **Britain** [accept equivalents; prompt on partial; prompt on **perimeter**; do not accept or prompt on "United Kingdom" or "England" in place of "Britain"] <CL>

7.

William Shakespeare wrote 154 poems in this form. For 10 points each:

[10] Identify this poetic form which contains fourteen lines, usually consisting of iambic pentameter.

ANSWER: **sonnets**

[10] The sonnet form named for this poet includes interlocking quatrains, such that the last line of the first quatrain rhymes with the first line of the next. *Gloriana* features prominently in one work by this poet.

ANSWER: Edmund **Spenser** [accept **Spenserian** sonnet]

[10] The poetic turn contained in a sonnet is referred to by this Italian term and usually appears at the end of either the eighth or twelfth line.

ANSWER: **voltas** <CL>

8.

For 10 points each, identify some contemporary bands influenced by folk rock and bluegrass.

[10] This band behind the album *Cleopatra* is known for songs like “Stubborn Love,” “Ho Hey,” “Angela,” and “Ophelia.”

ANSWER: The **Lumineers**

[10] This band’s latest album is *Wilder Mind*, which includes the songs “Ditmas” and “Tompkins Square Park.” Winston Marshall plays banjo for this band.

ANSWER: **Mumford & Sons**

[10] This modern bluegrass band’s albums include *Antifogmatic* and *The Phosphorescent Blues*. It was also the subject of the documentary *How to Grow a Band*.

ANSWER: **Punch Brothers** <CL>

9.

The Dartmouth proposal is a crucial statement in this field of study. For 10 points each:

[10] Identify this field which includes machine learning and attempts to replicate human cognitive functions.

ANSWER: **artificial intelligence** [or **AI**; accept **machine intelligence** or **MI**; prompt on **intelligence**; generously prompt on **computer science**]

[10] If the field of AI can produce sentient computers, many ethical and philosophical questions arise, and this idea about our world, developed by Nick Bostrom, might be true. A description is fine.

ANSWER: the **simulation** hypothesis [accept we are living in a computer **simulation** or we are computer **simulations** and equivalents; accept **artificial** in place of computer; prompt on the world is a **machine** and equivalents]

[10] This thought experiment, developed by John Searle, argues that a computer program can never provide consciousness. It imagines a conversation in its namesake language with a person who cannot speak it.

ANSWER: Searle’s **Chinese room** <CL>

10.

For 10 points each, name some things about the use of muskets in the years just after their invention.

[10] The Maori, the native people of this country, fought the devastating Musket Wars among themselves upon being supplied muskets by the British.

ANSWER: **New Zealand** [accept **Aotearoa**]

[10] This leader won the Battle of Nagashino using Portuguese-supplied arquebus muskets, enabling him to solidify his control over much of central Japan. He was assassinated and succeeded by his best general.

ANSWER: **Oda Nobunaga** [prompt on partial answer]

[10] This Hungarian military force was unusually well-equipped with arquebus muskets, with around a quarter of soldiers carrying them. Under the leadership of King Matthias Corvinus, it took much of Austria in the late 1400s.

ANSWER: **Black Army** [accept **Black Legion** or **Black Regiment**; prompt on **Black** or **Blacks** alone] <DM>

11.

For 10 points each, name some things about the uranium decay chain.

[10] Typically, uranium-238 will first decay to this element in alpha decay by emitting a helium nucleus. Later in the uranium series, this element will decay from its 230 isotope to radium-226.

ANSWER: **thorium** [prompt on **Th**]

[10] After uranium-238 decays to thorium-234, it decays again to protactinium-234 in the “minus” form of this decay, which converts a neutron to a proton while generating an electron and an electron antineutrino.

ANSWER: **beta**-minus decay

[10] In beta-minus decay, neutrons are converted to protons by this force, which works by exchanging force-carrying bosons to change the flavor of a quark. This force and electromagnetism are now thought to be aspects of the same force.

ANSWER: **weak** nuclear force [accept **weak** interaction] <BC>

12.

Welcome to New York! But more importantly, for 10 points each, welcome a bonus about its architecture!

[10] This Park Avenue office tower was once the most expensive skyscraper in the world. Until 2016, this work of Ludwig Mies van der Rohe was home to the Four Seasons Restaurant, the interior of which was designed by Philip Johnson.

ANSWER: the **Seagram** Building [accept **375 Park** Avenue]

[10] This modern art museum was designed by Frank Lloyd Wright and shares its name with a museum in Bilbao. Its gallery is a unique long, winding ramp that gives the museum a distinct circular shape.

ANSWER: Solomon R. **Guggenheim** Museum

[10] Just across the street from the Guggenheim is Central Park, perhaps the most notable work of these two American landscape architects, though both liked Prospect Park in Brooklyn more. Name either.

ANSWER: Frederick Law **Olmsted** and Calvert **Vaux** [accept either underlined portion] <BL>

13.

The clash alternately called the Battle of Jupiter Inlet or the First Battle of Loxahatchee occurred during this war.

For 10 points each:

[10] Name this war in which one group was led by a man born as Billy Powell who was later given the name Osceola. This war began a few years after the signing of the Treaty of Payne’s Landing.

ANSWER: **Second Seminole** War [prompt on **Seminole** War; prompt on but otherwise do not reveal **Florida** War]

[10] Earlier, during the First Seminole War, this future U.S. president had invaded Spanish Florida. He also defeated the Creek at the Battle of Horseshoe Bend and the British at the Battle of New Orleans.

ANSWER: Andrew **Jackson**

[10] This leader was the namesake of a massacre during the Second Seminole War, in which he and all but three of his men were killed. Miami’s county is partially named for this man.

ANSWER: Francis (Langhorne) **Dade** <DM/CL>

14.

Imagine how weird the “birds and the bees” talk would be if you lived in Norse myth. For 10 points each, name some things about wack origin stories.

[10] This god was simultaneously birthed by nine mothers. He wielded the horn Gjallarhorn (“YALL-are-horn”) on the rainbow bridge Bifrost.

ANSWER: **Heimdall** [accept **Heimdallr**]

[10] Loki became the mother of Sleipnir, an eight-legged one of these animals, after transforming into one. A more notable one of these animals is the Trojan one.

ANSWER: **horses** [accept the Trojan **horse**]

[10] Buri, the grandfather of Odin, was licked into existence by this animal, who created him after three days of licking salty ice cubes to feed Ymir, the first being.

ANSWER: **Audumbla** <RY>

15.

The last chapter of this work is entitled “The Author Talks to Himself.” For 10 points each:

[10] Identify this science fiction novel in which Captain von Toch discovers the title creatures, who eventually revolt against their human overlords.

ANSWER: **War with the Newts** [accept **War with the Salamanders**; accept **Válka s mloky**]

[10] *War with the Newts* was written by this author of *The Absolute at Large* and *The White Disease*. He is best known for the play *R.U.R.*

ANSWER: Karel **Čapek**

[10] In *R.U.R.*, Čapek coined a term for this type of machine which can perform given tasks automatically. The title *R.U.R.* stands for Rossum’s Universal [these things], and three laws for them were developed by Isaac Asimov.

ANSWER: **robots** [or **roboti**] <CL>

16.

This process can only occur in competent organisms. For 10 points each:

[10] Identify this process, first shown in the laboratory in 1928 by Frederick Griffith. Oswald Avery, Colin MacLeod, and Maclyn McCarty coined the term for this process and determined it was genetic in 1944.

ANSWER: **transformation** [accept word forms]

[10] Transformation is most commonly observed in these organisms, such as *Streptococcus pneumoniae*. These unicellular organisms are the namesake of one of the three domains, along with Archaea and Eukarya.

ANSWER: **bacteria** [accept **bacterium**]

[10] This other form of horizontal gene transfer, which is not transduction, occurs through direct contact between cells and shares its name with a term from linguistics.

ANSWER: **conjugation** [accept word forms] <CL>

17.

Meow. For 10 points each, name some stuff about cats in literature.

[10] In one novel by this author, a man searches for his family’s missing cat, which finally returns after almost a year. This author of *A Wild Sheep Chase* also wrote a novel about Toru Watanabe, which is titled for a Beatles song.

ANSWER: Haruki **Murakami** [prompt on **Haruki**]

[10] This nineteenth and early twentieth-century writer is perhaps best known for his novel featuring Mr. Sneaze and other middle class people during the Meiji period, *I Am a Cat*, though he also wrote *Kokoro* and *Botchan*.

ANSWER: Natsume **Sōseki** [accept Natsume **Kinnosuke**; prompt on **Natsume**]

[10] Both Murakami and Soseki are authors from this country, also home to Chikamatsu Monogatari and Yukio Mishima.

ANSWER: **Japan** [accept **Nippon**-koku or **Nihon**-koku] <CL>

18.

For 10 points each, name some things about holidays in Hinduism.

[10] The spring festival of Holi celebrates the defeat of evil and is sometimes known as the “festival of [these things].” As such, on Holi, people often throw special powder at each other.

ANSWER: **colors**

[10] For some Hindus, Ugadi serves as this type of celebration. One type of this celebration in a different Asian tradition features mandarin oranges and taro cakes, and in the United States, it is marked by a ball drop.

ANSWER: **new year** celebration [accept equivalents; begrudgingly accept lunar **new year** or lunisolar **new year**]

[10] Observance periods for Hindu festivals are usually marked by tithis, these specific units of time. These units of time correspond to an increase in the longitudinal angle between the Moon and the Sun by twelve degrees.

ANSWER: **lunar day** [prompt on **day**] <CL>

19.

In this system, one of the namesake things was left unplanted yearly. For 10 points each:

[10] Name this European agricultural system introduced in the Middle Ages. It replaced a less efficient system in which half of a farm lay fallow at a time.

ANSWER: **three-field** system [accept equivalents]

[10] This modern country was one of the first to replace the three-field system by planting crops such as turnips in the fallow fields. It further boosted productivity with land reclamation projects, since much of it lies below sea level.

ANSWER: **Netherlands** [accept **Nederland**; do not accept or prompt on “Holland”]

[10] This man was the father of the most recent agricultural revolution, boosting productivity in South Asia with new wheat varieties. He won the Nobel Peace Prize in 1960 and is credited with saving one billion people from starvation.

ANSWER: Norman (Ernest) **Borlaug** <BL>

20.

This man used the rare pigment ultramarine in his painting of a woman pouring a vat of milk. For 10 points each:

[10] Name this Dutch artist, whose portrait of a turban-wearing figure in *Girl with a Pearl Earring* is set against a solid black background.

ANSWER: Johannes **Vermeer** [or Jan **Vermeer** or Johan **Vermeer**]

[10] Name either of these two professions which title later Vermeer portraits. A Jodocus Hondius globe is present in the paintings of these two types of people, and though not biologists, both are believed to have been modeled by Antonie van Leeuwenhoek (“LAY-ven-hook”).

ANSWER: **geographer** or **astronomer** [accept either underlined portion; accept descriptions or equivalents]

[10] In this work by Vermeer, a curtain is pulled away on the left to show a maulstick-wielding man in a beret facing away from the viewer. In the back, a woman in light blue poses, sitting in front of a tapestry and holding a book.

ANSWER: *The **Art of Painting*** [accept *The **Allegory of Painting*** or ***Painter in his Studio***] <GA>

TB.

This legislation instructs the United States Civil Service Commission to appoint a chief examiner to create standardized examinations. For 10 points each:

[10] Name this act, which was passed to ensure that civil service officers would be appointed based on merit.

ANSWER: **Pendleton** Civil Service Reform Act [prompt on **Civil Service Reform** Act]

[10] The Pendleton Act was created after the 1881 assassination of this president by addled, disgruntled job-seeker Charles Guiteau.

ANSWER: James A(bram) **Garfield**

[10] Shortly after the assassination, Guiteau announced that he was a member of this Republican faction which opposed civil service reform.

ANSWER: **Stalwarts** <CO>