

PRISON BOWL XII: DANIEL TOLD US NOT TO HAVE A SUBTITLE

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PACKET THREE

TOSSUPS

1.

This ion's concentration is inversely proportional to hemoglobin's affinity for oxygen in the Bohr effect. It's not potassium, but the concentration of this ion is related to hyperkalemia. The movement of these ions can be described by the Q cycle. The drug omeprazole ("oh-mehp-raz-ole") inhibits the production of these ions in (*) parietal ("pah-RY-it-al") cells. Antimycin blocks the transport of these ions through the cytochrome bc₁ complex at the start of the electron transport chain, and these ions pass through ATP synthase to make ATP. For 10 points, name these ions donated by Brønsted-Lowry and Arrhenius acids.

ANSWER: hydrogen ions [accept H⁺ or protons or hydrons] <AJ>

2.

After defeating King Ugeo, this dynasty established its namesake Four Commanderies. This dynasty won the Battle of Mobei against Yizhixie ("yi-ji-shie") Chanyu. This dynasty, which conquered Nanyue in the south, suffered many losses to the Xianbei ("shian-bei"), and this dynasty regained (*) Vietnam from the Trung Sisters. This dynasty, which was interrupted by the Xin Dynasty of Wang Mang, suffered the Yellow Turban Rebellion in 184 AD. For 10 points, name this Chinese dynasty which succeeded the Qin and lends its name to China's biggest ethnic group.

ANSWER: Han Dynasty <CO>

3.

This country's largest island is often called Fernando Pao for its discoverer and lies in the Bight of Bonny. This country's new planned capital of Oyala has been renamed Ciudad de la Paz and lies east of its largest city, Bata. This country's island of Annobón lies south of its Rio (*) Muni region and is separated by Sao Tome and Principe from its largest island, Bioko. This country northwest of Gabon and south of Cameroon has capital Malabo. For 10 points, name this only African country to officially speak Spanish, which shares part of its name with a country with capital Bissau.

ANSWER: Republic of Equatorial Guinea [accept República de Guinea Ecuatorial] <DM>

4.

One character in this work refuses to attend her sister Janet's wedding, calling weddings "one of the most lamentable spectacles on earth." In this work, Dr. Mandelet interprets one character's tale of a woman disappearing with her lover as a sign of that character's infidelity. This novel's protagonist weeps upon hearing a piano (*) impromptu played by Mademoiselle Reisz ("RICE"). After an affair with Alcée Arobin ("al-SAY a-ro-BAN"), a character feels guilty because of her other lover Robert Lebrun. This novel's protagonist drowns herself in the Gulf of Mexico. For 10 points, name this novel about Edna Pontellier by Kate Chopin.

ANSWER: The Awakening <RY>

5.

Humans were created from this deity's tears when he cried at the world's perfection. This deity forbade a sky goddess from giving birth any day of the year, forcing her to gamble with Khonsu for moonlight to create extra days. This god attempted to kill all of humanity by summoning a (*) war goddess to terrorize them but took pity by turning her into the goddess of love. After being bitten by a snake fashioned out of his own saliva, this king of the gods was overthrown by Isis. For 10 points, name this Egyptian god who traveled the sky in his sun boat.
ANSWER: **Ra** [accept **Re**, anti-prompt on **Amun-Ra**, **Atum-Ra**, **Ra-Horakhty**, **Raet**, or **Raet-Tawy**] <MVP>

6.

Moderator Note: Very clearly pronounce the "a" in "thial"

Raney nickel can remove these structures in the production of cyclohexane. In a bridged ring system with under 8 carbons, these structures cannot appear at the bridgehead, by Bredt's rule. Thial compounds contain one of these structures between sulfur and carbon atoms and (*) geometric isomerism is due to these structures. Hydrocarbons with exactly one of these structures have a carbon-hydrogen ratio of 1 to 2, and these bonds contain one sigma and one pi bond. For 10 points, name this bond where two electron pairs are shared between two atoms.
ANSWER: **double bonds** [prompt on **bonds** before "1 to 2"] <BC>

7.

The city of Prizren in this country was made an imperial capital by Dušan ("DU-shan") the Mighty and later saw a league created there opposing the Treaties of San Stefano and Berlin. A 1389 battle named for this country saw Murad I killed on the Field of Blackbirds but solidified (*) Ottoman rule in the Balkans. A war in this country saw unauthorized intervention when NATO forces bombed Yugoslavia, earning flak for Bill Clinton, following the killing and deportation of ethnic Albanians by Serbian forces. For 10 points, name this newest European country with capital Pristina that split off from Serbia in 2008.
ANSWER: **Kosovo** <DM>

8.

One painting by this artist depicts men of the title organization inspecting Persian cloth and comparing it to a swatch book and was described as his "last great collective portrait." This artist made many self-portraits and New Testament scenes, including the *Hundred Guilder Print*, in (*) etching. Another painting by this artist includes Hebrew letters written top to bottom on the wall, predicting the downfall of the painting's namesake ruler of Babylon. His most famous work depicts a company led by Frans Banning Cocq. For 10 points, name this Dutch painter of *Belshazzar's Feast*, and *The Night Watch*.
ANSWER: **Rembrandt van Rijn** [accept either underlined portion] <JH>

9.

In a work set in this location, David goes to a gay bar where he meets the title character, and later he has sex with Sue in an attempt to prove he is not gay. Bishop Myriel gifts the protagonist of a novel mostly set in this place two silver (*) candlesticks after he is released from prison, and Gaspard kills the Marquis St. Evermonde after the Marquis accidentally kills his child in this city. d'Artagnan meets Athos, Parthos, and Aramis in this city that, with London, titles *A Tale of Two Cities*. For 10 points, name this setting of *Les Misérables*, the capital city of France.
ANSWER: **Paris** [prompt on **France** before city; do not accept afterwards. First line is from *Giovanni's Room*.] <RY>

10.

It's not Thomas or Matthew, but this figure was shown a vision of hell in *The Dialogue of the Savior*. In the first mention of this figure, Jesus saved them from possession by seven demons. In this figure's Gnostic gospel found in the Berlin Codex, Levi calls this figure the one most loved by Jesus. Possibly with others, this figure was at Jesus's burial and the first to see his tomb empty. Conflation with the (*) sinner present at Jesus' Anointing led many to believe this figure was a prostitute. For 10 points, name this female companion of Jesus, who is often with "the other Mary."

ANSWER: St. Mary Magdalene [prompt on partial; prompt on Mary of Bethany] <AJ>

11.

Irregularities in this entity lead to the dip angle in South America being higher than at similar latitudes elsewhere, and the Laschamp event led to an "excursion" of it. The THEMIS satellites study this entity that forms a "bow shock" when it reaches the solar wind and keeps Van Allen belts in place. Homing pigeons are believed to (*) use this entity to navigate. "Stripes" found on ocean ridges show that this entity has reversed polarity, and this entity is created by the liquid outer core rotating. For 10 points, name this entity that causes compasses to point to their namesake poles.

ANSWER: Earth's magnetic field [accept geomagnetic field and magnetosphere; prompt on magnetic field] <BC>

12.

Moderator Note: DO NOT read this note out loud. DO NOT mispronounce "noodle" as "needle"

It's not a noodle, but one of these objects was the subject of the Comte de Buffon's namesake problem. A firing pin of this object's shape characterizes a gun named after it, exemplified by the Dreyse. Workers using machines that mechanically moved these objects formed the ILGWU ("I-L-G-W-U"). One of these objects was stuck into a (*) "poppin" by Annabel Williams in *The Crucible*. Jesus compared rich men entering heaven to a camel entering one of these objects' "eyes." Naming a "Space" observation tower in Seattle, for 10 points, name these items used to sew with thread.

ANSWER: needles <DM>

13.

One collection by this man depicts clouds without reference, which were later referred to as *Equivalents*. One work by this artist depicts a solo locomotive in Long Island City and is *The Hand of Man*. His work *Snapshot: Paris* was featured in the quarterly magazine (*) *Camera Work* that he founded and published. The most famous photograph by this man, considered the first work of artistic modernism, was taken aboard the SS Kaiser Wilhelm ("VILL-helm") II. This artist's Gallery 291 often included works by his wife Georgia O'Keeffe. For 10 points, name this photographer of *The Steerage*.

ANSWER: Alfred Stieglitz <EL>

14.

A work by this man discusses killing livestock solely for their skins and refers to observations on wool prices made by David Hume. This man was opposed to slavery because he thought paying for labor upfront to be a risky investment. This man's works in (*) moral philosophy include *The Theory of Moral Sentiments*, and his most famous work in economics claims that it is not from benevolence that people conduct business, but in regard to "their own interest," introducing the idea of the invisible hand. For 10 points, name this Scottish economist and philosopher who published *The Wealth of Nations*.

ANSWER: Adam Smith [prompt on Smith] <BL>

15.

This man's English name may be derived from his native language's word for "wand" or "chaste one." One of his poetic works describes in detail methods of livestock breeding and where to plant vines. This writer's experience as a bee farmer aided his writing of the (*) *Eclogues* and *Georgics*. One epic poem by this author describes gates of ivory and horn in the underworld, entered by the Cumaean Sibyl and the title character, who later marries Latinus's daughter. The destruction of Troy and Trojan travel to Italy are described by, for 10 points, what writer of the *Aeneid*?

ANSWER: Publius Vergilius Maro [accept Virgil] <DM>

16.

The ubiquity of this general category of things was said by Walter Benjamin ("VAHL-tuh BEN-ya-meen") to have destroyed the aura of art. Robert Nozick described an "experience" one of these things in order to refute ethical hedonism, from which deeper philosophical reality cannot be attained by (*) "plugging in." A man translating Chinese characters in a sealed room was analogized to these things by John Searle ("surl"). According to Descartes, since animals do not have souls, they are essentially these things. For 10 points, name these things, which in one critique of Cartesian Dualism contain a ghost, that mechanically make things.

ANSWER: machines [anti-prompt on Artificial Intelligence or computers or printers] <AJ>

17.

Moderator note: Read the entire answerline carefully

These objects were shuttled in Operation Chrome Dome, during which a vehicle carrying one of them crashed into a fuel tanker in the Palomares disaster. The term "Broken Arrow" refers to a non-belligerent accident involving these objects. Some of these objects landed in 1961 in (*) Greensboro, and the Thule ("too-lee") disaster involved the crash of a plane carrying these objects. First tested in New Mexico at the Trinity Test by a team led by J. Robert Oppenheimer, the Manhattan Project created, for 10 points, what objects, two of which were dropped on Nagasaki and Hiroshima?

Answer: nuclear bombs [accept fission bombs or atomic bombs; do not accept or prompt on any other type of nuclear weapon (missiles, warheads, etc.) or "hydrogen bombs" or "thermonuclear bombs"; prompt on partial answer] <DM>

18.

Moderator Note: Read score clues slowly

A symphony of this number was the first one written for the Esterhazy court and is nicknamed *Le Matin*. One symphony of this number opens with a drone on F below a melody of "A B-flat D C B-flat A G." Mahler's symphony of this number features a (*) hammer blow in the fourth movement. The *Allegro con grazia* second movement of one symphony of this number is a "limping waltz" in 5/4. In the F-minor fourth movement of a symphony of this number, the composer uses timpani and flute to depict a thunderstorm. For 10 points, name this number of Tchaikovsky's *Pathetique* symphony and Beethoven's *Pastoral* symphony.

ANSWER: 6th symphonies <BC>

19.

This work's climax sees one character telling his fiancé "most foul, most fair, farewell." Signs of one of this work's main characters falling in love include him brushing his hat, shaving his beard, and wearing perfume. One character in this play says "remember that I am an ass" and is named (*) Dogberry, who leads the city's night watch. Borachio is paid to have sex with Margaret in this play as part of Don John's scheme to end Claudio and Hero's relationship. For 10 points, name this Shakespeare play taking place in Messina that ends in the marriage of Beatrice and Benedick.

ANSWER: Much Ado About Nothing <RY>

20.

Pyotr Kapitza names a type of this system in which a certain point moves up and down. A lateral harmonograph consists of two of these devices. These systems are described by the equation “theta double dot equals negative g over L sine theta”; that equation is solved by using the (*) small-angle approximation. The period of these systems, which is independent of mass, is given by 2 pi times the square root of length over gravity. For 10 points, name these oscillators that consist of a mass on a string and are used in clocks.

ANSWER: pendulums [prompt on simple harmonic oscillators or SHOs] <BC>

TB.

This man was the object of many insulting drinking songs by Timocreon. This man banished a rival with whom he allegedly competed for the love of a young boy and eventually was himself banished by Cimon, after which he became Governor of Magnesia under (*) Artaxerxes I. This man advocated for the construction of a port at Piræus for a large navy. This man urged his men to abandon Athens before his most famous battle, in which his triremes routed the Persian fleet in a namesake strait. For ten points, name this statesman who led the Greeks to victory in the Battle of Salamis.

ANSWER: Themistocles <AZ>

BONUSES

1.

The Republican River is not named after the Republican party or the American Republic, but rather for a band of Pawnee Indians nicknamed “Republicans.” For 10 points each:

[10] Those Indians lived along the Republican as it passed through Nebraska and this state. The Republican is a tributary of this state’s namesake river, on which lies its capital, Topeka.

ANSWER: **Kansas**

[10] Following the Louisiana Purchase, the Republican Pawnee were swayed towards American allegiance by this explorer, who also names a prominent peak near Colorado Springs.

ANSWER: Zebulon **Pike**

[10] On a tributary of the Republican, this tribe suffered a devastating defeat at the Battle of Beecher Island, in which their leader Roman Nose died. They’re not the Arapaho, but they had previously separated into Northern and Southern portions in 1832.

ANSWER: **Cheyenne** [accept **Tsêhéstáno**] <DM>

2.

Answer some questions about night in literature, for 10 points each:

[10] In this person’s Holocaust memoir titled *Night*, Moshe the Beadle is deported and the main character witnesses the hanging of a young boy.

ANSWER: Elie **Wiesel** [accept Eliezer **Wiesel**]

[10] In the collection *One Thousand and One Nights*, this woman tells stories to her husband, Shahryār, so he won’t behead her. One of her most famous stories is *Ali Baba and the Forty Thieves*.

ANSWER: **Scheherazade**

[10] This author’s book *Two Years Eight Months and Twenty-Eight Nights* is a modern-day version of *One Thousand and One Nights*. He also wrote *Shalimar the Clown*, a novel about the counterterrorism chief of America.

ANSWER: Sir Ahmed Salman **Rushdie** <MS>

3.

The third movement of *Brandenburg Concerto #1* and first movement of *Brandenburg Concerto #4* end with prominent uses of this device. For 10 points each:

[10] Name this rhythmic device in which substantially different rhythms clash with each other. For example, in its “4 against 3” variety, one line plays 3 beats in the time that another takes to play 4.

ANSWER: **polyrhythm**

[10] This composer’s song “America” in *West Side Story* uses polyrhythm prominently. He also conducted the New York Philharmonic and hosted Young People’s Concerts to teach children about the orchestra.

ANSWER: Leonard **Bernstein**

[10] This device, whose name literally means one and a half in Greek, is the simplest polyrhythm, often referred to as 3 against 2. It is always used in flamenco and features in all of the aforementioned compositions in this bonus.

ANSWER: **hemiola** <DM>

4.

This law first appeared in a chapter called “Axiomata sive Leges Motus.” For 10 points each:

[10] Name this law that states that an object’s acceleration is zero unless the object is acted on by a net external force.

ANSWER: **Newton**’s **1st** Law of Motion [prompt on partial]

[10] Newton’s first law is often called the law of this property. This property is the tendency for an object to resist changes in its velocity.

ANSWER: **inertia**

[10] Einstein showed in general relativity that gravity arises through curvatures in space-time. He hence showed that in an inertial reference frame, required for Newton’s First Law to hold, gravity has this property.

ANSWER: **fictitious** <DM>

5.

Typological features of this dialect include the habitual “be” and the use of double-negatives. For 10 points each:

[10] Name this dialect of English that is the origin of words like “cool,” “jazz,” “hip,” and “yam.” More recently, use of words from this dialect by white people has sparked criticism.

ANSWER: **African American Vernacular English** [accept **Ebonics**; accept **black English** or other clear word forms]

[10] The alternation between use of African American Vernacular English and Standard English in different contexts is an example of this behavior, in which different dialectal registers are used to communicate with different groups by the same people.

ANSWER: **code switching**

[10] Due to grammatical features inherited from West African languages like Yoruba and Ibibio, African American Vernacular English shares many typological features with a creole language family named for this body of water. Creole languages in that family are largely the result of the slave trade across this body of water.

ANSWER: **Atlantic** Ocean <AJ>

6.

Moderator Note: Do NOT reveal alternate answers to the second part.

In one of this author’s novels, the title character kills Alec and runs away with Angel Clare. For 10 points each:

[10] Name this author of *Tess of the d’Urbervilles*.

ANSWER: Thomas **Hardy**

[10] In one novel by Hardy, this character has two daughters with the name Elizabeth-Jane. This character and one of the Elizabeth-Janes are later sold to Richard Newsom for five guineas.

ANSWER: **Susan** Henchard [accept **Mrs. Henchard**, **Henchard’s wife**; prompt on **Henchard** or the **Mayor** of Casterbridge’s **wife**]

[10] Susan Henchard is the wife of the title character in this Hardy novel. The title character of this novel swears to abstain from drink for 21 years.

ANSWER: ***The Mayor of Casterbridge: The Life and Death of a Man of Character*** <AD/R>

7.

Name some things related to Clashes, for 10 points each:

[10] In the 2010 film *Clash of the Titans*, Zeus utters this memeable line, calling for a certain squidlike creature to be unleashed.

ANSWER: **release the kraken**

[10] The third album of British punk band The Clash is titled “[This City] Calling.” Other than the Clash, bands from this city include the Rolling Stones, the Police, and Pink Floyd.

ANSWER: **London**

[10] After sexual misconduct allegations, actor Kevin Clash was fired from the role of this muppet. Along with Cookie Monster, this muppet stars in the *Sesame Street* spinoff *Furchester Hotel*.

ANSWER: **Elmo** <AJ>

8.

Simple or multivariate? For 10 points each,

[10] Name this statistical technique that commonly uses least squares methods to guess the parameters of its equations and assumes a constant relationship between its variables.

ANSWER: **linear regression**

[10] This type of statistic can either be used to determine independence or goodness of fit. It’s taken by summing up the square of the difference between expected and observed values divided by expected values.

ANSWER: **chi-square**

[10] This statistic determines whether or not to reject the null hypothesis; it is the probability that the null hypothesis could produce the observed result or something more extreme.

ANSWER: **p-value** <BL>

9.

How many capitals of Japan are there? Only one. Nevertheless, there have been many ancient capitals of Japan. For 10 points each:

[10] This city names a period following the Asuka and was the first Japanese capital built in the Tang Chinese style. It was also the first permanent capital of Japan, before Nagaoka.

ANSWER: **Nara**

[10] The Nara period was followed by a period named after this city, now in the Osaka-Kobe metropolitan area.

ANSWER: **Kyoto** or **Heian-kyo**

[10] From Kyoto, the imperial capital was moved to Edo, which is now this modern capital of Japan.

ANSWER: **Tokyo** <DM>

10.

This country’s World Cup jersey, with an eye-catching green and white striped pattern, sold over 3 million copies. For 10 points each:

[10] Name this African country with capital Abuja. Other cities in this country include Ibadan and Lagos, which is split between a main island and a new town on the mainland.

ANSWER: Federal Republic of **Nigeria**

[10] Violence has erupted in Lagos over the reelection of this man who was accused of hiring a Sudanese actor or a clone to cover up his illness. He was previously Nigeria’s military dictator from 1983 to 1985.

ANSWER: Muhammadu **Buhari**

[10] Before being President, Buhari worked for this military dictator. This dictator had human rights activist Funmilaya Ransome Kuti thrown out of a window, and he spearheaded planning for Abuja.

ANSWER: Olusegun Mathew Okikiola Aremu **Obasanjo** <AJ/PO>

11.

Name some things that end in -tion that happen to be organic reactions, for 10 points each:

[10] In this process, hydrocarbons react with oxygen to form carbon dioxide and water, as well as releasing a lot of heat. Engines driven by this process are used in cars.

ANSWER: **combustion**

[10] This process produces molecules with the general formula R-C-O-O-R prime and a famous example of it is named for Fischer; in that process, a carboxylic acid is treated with alcohol in the presence of a catalyst such as sulfuric acid.

ANSWER: **esterification**

[10] The ester bonds found in fatty acids are cleaved in this reaction, which involves mixing an oil or fat with a base, often lye, to produce glycerin and soap.

ANSWER: **saponification** <BC>

12.

This man's *The Isolated State* began the first study of economic geography. For 10 points each:

[10] Name this geographer who created a namesake concentric ring model for land usage. The rings, in order from inner to outer, are dairy, fuel forestry, grains, and ranching.

ANSWER: Johann Heinrich **von Thünen**

[10] The center of von Thünen's land use model is this type of place. Urbanization refers to the process of mass migration to this type of place from the countryside.

ANSWER: **city** [accept **urban**]

[10] von Thünen's model depends on the idea of the size of this quantity being dependent on geographical location, independent of the land itself. Controls on the value of another type of this quantity may have led to housing shortages and quality decline in New York City in the 1970s.

ANSWER: **rent** <DM>

13.

In one of this author's novels, Belbo, Diotallevi, and Casaubon create a conspiracy theory called "The Plan." For 10 points each:

[10] Name this Italian author of works such as *Foucault's Pendulum*.

ANSWER: Umberto **Eco**

[10] Eco is most famous for this work, a historical murder mystery that follows William of Baskerville, a 14th century monk.

ANSWER: *The **Name of the Rose*** [accept *Il **nome della rosa***]

[10] Eco also wrote this 2010 historical novel that follows Simone Simonini, an author who is hired by Piedmont Government secret service to spy on Garibaldi.

ANSWER: *The **Prague Cemetery*** [accept *Il **cimitero di Praga***] <PO>

14.

This republic opposed Ottoman hegemony in the Balkans for centuries but was finally conquered by Napoleon. For 10 points each:

[10] Name this republic along the eastern coast of the Adriatic. The modern name of its capital is Dubrovnik.

ANSWER: Republic of **Ragusa**

[10] Ragusa is currently in this country with capital Zagreb, the newest to join the EU.

ANSWER: Republic of **Croatia** [accept Republika **Hrvatska**]

[10] Ragusa lies in this coastal region of the northern Balkans, encompassing much of Croatia, where Diocletian made a palace in Split.

ANSWER: **Dalmatia** <DM>

15.

The rightmost panel of this work depicts sinners crawling along an oversized lyre and harp. For 10 points each:

[10] Name this work which depicts a flock of birds and naked humans floating inside bubbles in its center panel. Its title is a reference to the frivolities in its center panel.

ANSWER: *The **Garden of Earthly Delights***

[10] *The Garden of Earthly Delights* is by this Dutch artist who is known for depicting nightmarish and cluttered biblical scenes.

ANSWER: Hieronymus **Bosch** [accept Jheronimus or Joen **van Aken**]

[10] Hieronymus Bosch also created one of these items depicting the seven deadly sins and the last four things.

ANSWER: **table** <AJ>

16.

Early examples of these chemicals were refined from poppies. For 10 points each:

[10] Name these psychoactive chemicals which are currently the focus of a drug epidemic. Examples of these chemicals include heroin, fentanyl, and oxycontin.

ANSWER: **opioids** [do not accept opiates]

[10] An opioid overdose can lead to this condition, in which blood oxygen levels are too low to sustain life.

ANSWER: **hypoxia**

[10] Hypoxia can be averted by using this opioid antagonist which can be administered nasally to treat opioid overdoses.

ANSWER: **naloxone** [accept **narcan** or **evzio**] <AJ>

17.

In this poem, the poet says “The land was ours before we were the land’s.” For 10 points each:

[10] Name this poem which also claims that we “forthwith found salvation in surrender.” The most famous recitation of this poem occurred at a 1961 presidential inauguration.

ANSWER: “**The Gift Outright**”

[10] “The Gift Outright” was written by this American poet whose other poems include “The Road Not Taken” and “Nothing Gold Can Stay.”

ANSWER: Robert **Frost**

[10] This other Frost poem refers to two elemental phenomena; Frost says that “I hold with those who favor” the first phenomenon while he describes the second as “also great, and will suffice.”

ANSWER: “**Fire and Ice**” <BC>

18.

People in Arthurian times sure seemed to have a predisposition for romantic drama! For 10 points each:

[10] This greatest companion of King Arthur was renowned as the best swordsman in the land, until his affair with Guinevere (“GWIN-uh-veer”) led to Mordred’s success in ending the kingdom.

ANSWER: **Lancelot**

[10] This figure took care of Lancelot after the death of his father. This figure also gave Arthur the sword Excalibur.

ANSWER: **Lady of the Lake** [accept **Nimue**, **Viviane**, **Niniane**, **Niviene**, or **Nineve**]

[10] The romance between Lancelot and Guinevere was most likely inspired by the adulterous affair between these two figures. These lovers later inspired and shared a name with a Wagner opera renowned for its dissonance.

ANSWER: **Tristan** and **Iseult** [accept **Isolde** in place of Iseult and **Tristram** in place of Tristan, also accept **Tristan und Isolde**] <EL>

19.

Let's go take a walk through some lovely gardens! For 10 points each:

[10] Name this Chinese city notable for its Humble Administrator's Garden and canals on Lake Tai.

ANSWER: **Suzhou** ("soo joe")

[10] This palace's name translates to "without worry" and features extensive terraced vineyards; the gardens were initially designed by Frederick the Great himself.

ANSWER: **San souci**

[10] This French palace in the outskirts of Paris was created by Louis XIV, with extensive formal gardens created by Andre de Horte. Its Hall of Mirrors was the site of many notable treaties.

ANSWER: **Versailles** <BL>

20.

This term literally means flowing or wandering. For 10 points each:

[10] We are all trapped in this cycle of death and rebirth from which we must escape by having good karma.

ANSWER: **samsara** [accept **samsāra**]

[10] When one breaks free of samsara, they achieve this state, a transcendental existence in which suffering and individual identity do not exist. A band named for this state is known for songs like "Smells Like Teen Spirit."

ANSWER: **nirvana** [accept **moksha**]

[10] It can be difficult to achieve nirvana because of this concept, the idea that the world is an illusion or deception.

ANSWER: **maya** <AJ>

TB.

Let's dissolve some salts in solution. For 10 points each:

[10] Salts will undergo this process in polar solutions, in which the individual ions disconnect from one another and float freely in the solution.

ANSWER: **dissociation**

[10] Another property of ionic solutions is this colligative property which is often exploited to keep streets clear in the winter by salting them.

ANSWER: **freezing point depression** [accept word forms like **lowering the freezing point**]

[10] Dissolving ions in solution often increases this property of the solution. This property of allowing electron flow can be considered infinite in plasma and is in general very high in metals.

ANSWER: electrical **conductivity** <AJ>