

1. **One type of these molecules commonly contains inosine (IN-uh-seen) and pseudouridine (SOO-doh-YOO-rih deen). With proteins, they make snRNPs (“snurps”), which are central to removing introns in the process of splicing. These molecules lack a two prime hydroxyl group. They also make up (\*) retroviruses. A cloverleaf-shaped type of them contains an anticodon (“anti”-KOH-don) and a 3’ (“three prime”) end for carrying amino acids to ribosomes during translation. The process of transcription create the messenger type. For 10 points, name these nucleic acids similar to DNA.**

ANSWER: **RNAs** [or **ribonucleic acids**; prompt on **nucleic acids**; accept **tRNAs** or **transfer RNAs** or **tranfer ribonucleic acids** until “messenger” is read]

079-10-23-07102

2. **One ruler of this empire was heavily influenced by the Sayyid brothers before being succeeded by Rafi Ul-Darjat. This dynasty's rule was interrupted by the Suri dynasty before being continued by Humayun, who was the father of a ruler who expressed religious tolerance, (\*) Akbar. Another member of this dynasty strictly upheld sharia law; that man, Aurangzeb, was the son of Shah Jahan, under whose reign the Taj Mahal was built. For 10 points, name this Indian empire whose reign was abolished by the British in 1857.**

ANSWER: **Mughal** Empire [or **Mogul** Empire]

081-10-23-07103

3. **In one work, this man argued through his Copy Principle that all simple ideas originate from simple impressions, only to provide a counter-example by describing a missing shade of blue. In that same work by this philosopher, the phrase "a violation of the laws of nature" is used to define a concept in the chapter "Of (\*) Miracles." For 10 points, name this Scottish philosopher who supported the philosophy of empiricism in his works, which included *A Treatise of Human Nature* and *An Enquiry concerning Human Understanding*.**

ANSWER: David **Hume**

023-10-23-07104

4. **This figure's downfall began after he made vows both to never refuse any meat offered to him and to never eat dog meat. This man killed his own son, Connla, with a barbed spear called Gae Bulg, and in one event, battles a shapeshifting figure called the Morrigan before being healed by his father Lugh; that action occurred during the (\*) Cattle Raid of Cooley at which he foiled the plans of Queen Maeve. For 10 points, name this mythical hero of the Ulster cycle who received his name after killing the hound of the smith Culann.**

ANSWER: **Cu Culainn** [or **Setanta**]

081-10-23-07105

5. **W.H. Auden’s long poem “The Sea and the Mirror” is subtitled “a commentary” on this work. In this play, two drunkards named Stephano and Trinculo bribe one character with clothing from a stolen suitcase. The witch Sycorax sired one character in this play, which also includes a spirit who conjures visions of gods. (\*) Ariel and Caliban appear in this play, in which Miranda is the daughter of a former duke who can perform magic. For 10 points, name this play in which Prospero conjures the title storm in an attempt to regain the Duchy of Milan, written by Shakespeare.**

ANSWER: *The **Tempest***

026-10-23-07106

6. **One painter depicted philosophy, medicine, and jurisprudence on the ceiling of a university in this city; those works were destroyed by fleeing SS troops in 1945. This city was home to the artist of *Bride of the Wind*, who paired up with Egon Schiele (SHAY-luh) and another artist to create its namesake "Secession." That artist is also known for his gold-inspired *Portrait of Adele Bloch-Bauer I* and (\*) *The Kiss*.** For 10 points, name this city that was home to Gustav Klimt and two schools of composers, a noted art mecca in Austria.

ANSWER: Vienna [or Wien; or Wean]

026-10-23-07107

7. **The strong form of Planck's formulation of this statement requires a unity quantum mechanical degeneracy in the ground state. That formulation was based on a consequence of the Nernst-Simon formulation, which and is a generalization of the Nernst Heat Theorem. This statement says that the limit of the change in (\*) entropy for a transformation approaches zero as temperature approaches zero.** For 10 points, name this statement whose "unattainability" form states that absolute zero cannot be reached in a finite number of steps.

ANSWER: Third Law of Thermodynamics

003-10-23-07108

8. **In one novel by this author, Lucius Harney hides his engagement to Annabel Balch despite his romantic relationship with Charity Royall. In addition to writing *Summer*, she wrote about Undine Spragg's succession of marriages in *The Custom of the* (\*) *Country*.** She is better known for a work in which Mattie Silver is left crippled following a sledding accident. For 10 points, name this author of *Ethan Frome*.

ANSWER: Edith Wharton

040-10-23-07109

9. **This nation saw a massacre of its citizens at Volhynia. After the rule of Edward Gierek, an agreement in this country led to the formation of an independent trade union led by a former electrician. That trade union in this country was formed in Gdansk and called Solidarity. An invasion of this country occurred one week after two other countries agreed to the (\*) Molotov-Ribbentrop Pact.** For 10 points, name this nation whose 1939 invasion marked the start of World War II when it was attacked on both fronts by Germany and Russia.

ANSWER: Republic of Poland [or Rzeczpospolita Polska]

081-10-23-07110

10. **One of this author's title characters meets Edith Cortright while travelling across Europe with his wife Fran. Another of his title characters is an alcoholic lawyer who later becomes a Methodist minister. This author of *Dodsworth* and *Elmer* (\*) *Gantry* set many of his works in the fictional city of Zenith, Winnemac, including a novel in which Paul Reisling shoots his wife Zilla.** For 10 points, name this author of *Babbitt* and *Main Street*.

ANSWER: Harry Sinclair Lewis

024-10-23-07111

11. **This man replaced Gabriele de Launay with Massimo D'Azeglio after the truce of Vignale was viewed unfavorably, even though he had been lucky to obtain generous terms after coming to power in the wake of a defeat at Novara. He was excommunicated following the Battle of Castelfiardo, though that decision would be reversed by Pope Pius IX shortly before his death. Succeeded by Umberto I, this man played a role (\*) unification of the nation that he ruled, which he completed with the aid of Count Cavour and Giuseppe Garibaldi.** For 10 points, name this king of Italy.

ANSWER: Victor Emmanuel II [prompt on Victor Emmanuel]

040-10-23-07112

12. This artist depicted himself with his wife Saskia in *The Prodigal Son in the Tavern*. A man wearing a gold chain rests his hand on a small sculpture in another work by this artist, who also created a work depicting a man holding a blue and yellow flag and an illuminated girl carrying a dead chicken on her belt. That work by this painter of *Aristotle Contemplating a Bust of Homer* was commissioned by Captain (\*) Frans Banning Cocq to depict his militia. For 10 points, name this 17th century Dutch artist who also painted *The Night Watch*?

ANSWER: Rembrandt Harmenszoon van Rijn

023-10-23-07113

13. In this state, the "Friendship Nine" initiated the "jail no bail" strategy by insisting on serving their sentences after being arrested during a sit-in. During the Revolution, Nathanael Greene faced Alexander Stewart at Eutaw Springs in this state. A fifteen hundred dollar lottery payoff was used to plot a slave rebellion in this state by (\*) Denmark Vesey. This state saw the battles of Cowpens and Camden during the Revolution and its Nullification movement was led by John Calhoun. For 10 points, name this first state to secede from the union, the site of Fort Sumter.

ANSWER: South Carolina

015-10-23-07114

14. In acoustics, this quantity equals sounds intensity times area. In fluid dynamics, it equals pressure times the volumetric flow rate. In rotational mechanics, this quantity equals angular velocity times torque. In electricity, it equals current squared times (\*) resistance. In kinematics, it equals velocity times force. It is most simply expressed as work over time. For 10 points, name this quantity measured in Watts.

ANSWER: power

079-10-23-07115

15. As a result of this language's contact with Persian, it lost number agreement between adjective and noun endings, and instead uses postpositions for that purpose. Its only noun inflections are for the "direct" and "oblique" cases. This language evolved from Khari Boli and is written in the (\*) Devanagari script, unlike its more Arabic-influenced cousin, Urdu. It has more native speakers in the country where it is an official tongue than Telugu, Bengali, or Tamil. For 10 points, name this language which is prominent in northern India.

ANSWER: Hindi [or Hindustani]

019-10-23-07116

16. An early publication of this work, in Max Seiffert's *Organum*, was given the inauthentically slow tempo of quarter note = 56. This piece, written by the composer of the *Hexachordum Apollinis*, was originally paired with a gigue in the same key. It features a chaconne-like sequence from the basso continuo consisting of the notes (\*) D-A-B-F sharp-G-D-G-A repeated 28 times, over which three violins play a series of variations in the namesake strict imitative form. For 10 points, name this work by Johann Pachelbel.

ANSWER: Canon and Gigue In D

082-10-23-07117

17. **This NBA team was upset as the number one seed in its opening round matchup in the 2007 playoffs against the Golden State Warriors. This team lost four straight games to the Miami Heat in its only NBA Finals appearance in 2006. The owner of this team once worked for a day at a (\*) Dairy Queen after claiming that a ref could not manage one. For 10 points, name this NBA team coached by Rick Carlisle and owned by Mark Cuban, which features players including Jason Terry, Jason Kidd, and Dirk Nowitzki.**

ANSWER: Dallas Mavericks [or Dallas Mavericks]

023-10-23-07118

18. **In one play by this author, one character traps his father in his own house to prevent him from attending the law courts. He also wrote a play in which Cleon competes with a sausage seller named Agoracritus. In another of his plays, the title character tells the women of Greece to withhold sex from their husbands to pressure them into ending the Pelopponesian War. He also wrote a play whose title creatures chant the chorus (\*) "Brekekekex koax koax." For 10 points, name this author of comedies such as *The Wasps*, *The Knights*, *Lysistrata*, and *The Frogs*.**

ANSWER: Aristophanes

030-10-23-07119

19. **CD19 is an important co-receptor in these cells. They can undergo isotype switching and somatic hypermutation. These cells proliferate in germinal centers, while some of these are relegated to the marginal zone of the spleen. Their activation can be dependently or interdependently of a fellow lymphocyte. They can be divided into memory and (\*) plasma cells. They develop in the bone marrow and produce the central component of humoral immunity. For 10 points, name these cells that produce antibodies unlike T cells.**

ANSWER: B cells [prompt on lymphocyte; prompt on white blood cell; prompt on leukocyte]

001-10-23-07120

20. **This country's Jewish population has diminished from over a quarter of a million to barely five thousand within the last sixty years. This nation's longest river is the Draa River. Its once contested southern border is formed by a perfectly straight latitudinal line. Its northern portion contains the Rif Mountains, while its highest point, Jbel Toubkal, is also the highest peak in the (\*) Atlas Mountains. Its cities include Marrakech, Tangier, and Fez. For 10 points, name this nation with capital Rabat which is situated across the Strait of Gibraltar from Spain.**

ANSWER: Morocco

040-10-23-07121

21. **This man once earned two of Louisiana's five electoral votes, the only ones he received from a slave state. He worked for eight years to repeal the Gag Rule in Congress. This man lost a Senate seat when he went against his Federalist Party to support the Embargo Bill. As Secretary of State, he purchased the Florida Territory. After winning an election, this man made (\*) Henry Clay his Secretary of State. For 10 points, name this man who succeeded James Monroe as President, perhaps due to a "corrupt bargain" in the 1824 election.**

ANSWER: John Quincy Adams [prompt on Adams; do not accept "John Adams"]

003-10-23-07122

22. **One character in this play notes that Socrates is a cat because all cats die and Socrates is dead. The protagonist of this play works at an office with Botard and Dudard and is criticized for his drinking by his friend Jean. That protagonist of this play barricades himself in his room and breaks up with the typist (\*) Daisy, vowing to fight against the influx of the title creatures. For 10 points, name this absurdist play in which Berenger watches everyone transform into the title animals, a work of Eugene Ionesco.**

ANSWER: **Rhinoceros**

015-10-23-07123

23. **Antonio Todaro was an influential teacher of this dance during a revival in its popularity in the mid-1980's. Early styles of this dance include orillero (or-ree-YER-oh), cayengue (kah-YEN-"gay"), and salon. A later style of this dance, milonguero, was named after the milongas at which this dance is performed socially. The American version of this dance is most regularly in 2/4 ("two"- "four") time and employs a (\*) slow-slow-quick-quick-slow step sequence. For 10 points, name this ballroom dance that evolved in Argentina.**

ANSWER: **tango**

003-10-23-07124

1. It was written by a man who had been attempting to integrate lunch counters along with Abraham Lincoln Woods and six others. For 10 points each:

[10] Name this 1963 reply to a group of clergymen who condemned the campaign, which discusses "just and unjust laws" and notes "oppressed people cannot remain oppressed forever."

ANSWER: the **Letter** from **Birmingham Jail** [accept reasonable equivalents]

[10] This writer of the Letter from Birmingham Jail gave his "I Have a Dream" speech later that year.

ANSWER: Martin Luther **King, Jr.**

[10] King was again confronted by Alabama police in 1965, while leading a march to Montgomery from this small town. Police beat marchers on the Edmund Pettus Bridge.

ANSWER: **Selma**

019-10-23-07201

2. An early writer who worked in this country was Ibn al-Nafis. For 10 points each:

[10] Name this country whose literary works, such as the *Book of the Dead*, were often written on papyrus.

ANSWER: Arab Republic of **Egypt**

[10] This Nobel-winning Egyptian author is best known for his Cairo Trilogy, including the novels *Palace Walk* and *Palace of Desire*.

ANSWER: Naguib **Mahfouz**

[10] The third novel in the Cairo Trilogy is this novel named after a street in Cairo.

ANSWER: **Sugar Street** [or *El-Sukkareyya*]

040-10-23-07202

3. Answer the following about genetic experiments for 10 points each.

[10] In this kind of cross, an individual with a dominant phenotype is crossed with an individual with a recessive phenotype to find out whether the individual is homozygous or heterozygous.

ANSWER: **test** cross

[10] This other kind of cross takes place between two double heterozygotes; the children show phenotypes in a 9:3:3:1 ratio.

ANSWER: **dihybrid** cross

[10] The results of both the test cross and dihybrid cross can be predicted using one of these geometric constructs developed in 1905 by a British geneticist.

ANSWER: **Punnett squares**

003-10-23-07203

4. Answer some questions about the Gospels, for 10 points each.

[10] This is the last of the four canonical gospels, and was probably written in the late first century by its namesake apostle.

ANSWER: Gospel According to **John**

[10] The other three canonical gospels are collectively known by this name because of the similarities between them.

ANSWER: **Synoptic** Gospels

[10] This controversial Gnostic gospel was translated in 2006 by Rodolphe Kasser.

ANSWER: Gospel of **Judas**

024-10-23-07204

5. An eight-atom ring of this structure can form either monoclinic or rhombic crystals. For 10 points each:  
[10] Name this atom found just below oxygen on the periodic table.

ANSWER: **sulfur** [or **S**]

[10] In this reaction, rubber polymers are cross-linked through heat and the addition of sulfur to form stronger materials.

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

[10] Disulfide bridges, part of the secondary structure of proteins, are caused by linkages between the sulfur atoms in two molecules of this amino acid.

ANSWER: **cysteine** [or **Cys**; or **C**]

003-10-23-07205

6. The opening of one song from this suite may have derived from the process of tuning the Hardanger fiddle. For 10 points each:

[10] Name this suite of incidental music for a Henrik Ibsen play, which begins with the song "Morning Mood" and also contains "In the Hall of the Mountain King."

ANSWER: ***Peer Gynt Suite, No. 1***

[10] The *Peer Gynt Suite* was written by this Norwegian composer, whose Funeral March was composed to commemorate the death of Rikard Nordraak.

ANSWER: Edvard **Grieg**

[10] This set of sixty-six short piano works published across ten different books includes songs such as "Arietta," "March of the Trolls," and "Wedding Day at Troldhaugen."

ANSWER: ***Lyric Pieces***

003-10-23-07206

7. This husband of Theodora put down the Nika revolts with the help of his general Belisarius. For 10 points each:

[10] Name this "great" Byzantine emperor whose legal reforms were implemented by Tribonian.

ANSWER: **Justinian** the Great [or **Justinian I**; Flavius Petrus **Sabbatius**; or Flavius Anicius **Justinianus Magnus**]

[10] Justinian ruled the Byzantine Empire from Constantinople in this modern-day Eurasian country. The Ottomans under Mehmed II conquered it in 1453, and Atatürk declared it a republic with capital Istanbul in 1923.

ANSWER: Republic of **Turkey** [or **Turkiye Cumhuriyeti**]

[10] Another Byzantine emperor was this man, who lost the Battle of Trajan's Gate to the Bulgarian Samuel, but then blinded 15,000 of Samuel's kinsmen at Kleidion, leading to his nickname.

ANSWER: **Basil the Bulgar-Slayer** [or **Basil II**; or **Basil the Young**; or **Basileios II**; or **Basileios Boulgaroktonos**; prompt "Basil"]

079-10-23-07207

8. Many of the pieces in this series are long, curved, thin sculptures, and while roughly half were done in marble, the best known version is bronze. For 10 points each:

[10] Name this work, which depicts the movement of one of the titular animals, and was taxed by U.S. Customs because they didn't realize it was art.

ANSWER: **Bird in Space**

[10] This Romanian sculptor executed the *Bird in Space* as well as *Sleeping Muse* and *Princess X*.

ANSWER: Constantin **Brancusi** (bran-COO-see)

[10] This other Brancusi sculpture, found at Targu Jiu (TEAR-gyoo zhou), was originally designed as part of a monument to World War One casualties along with his *Table of Silence* and *Gate of the Kiss*. It consists of seventeen and a half stacked units.

ANSWER: **Endless Column**

040-10-23-07208

9. Frank Lautenberg is currently the oldest member of the United States Senate. For 10 points each:

[10] Lautenberg represents this state, which is also represented by Bob Menendez.

ANSWER: **New Jersey**

[10] New Jersey is currently governed by this Tea Party favorite. He received some blame after New Jersey lost out on federal Race to the Top education grants, and he previously served as United States Attorney.

ANSWER: Chris **Christie**

[10] Chris Christie defeated this incumbent in 2010 for the governorship. A former CEO for Goldman Sachs, as a senator, this man co-authored the Sarbanes-Oxley Act.

ANSWER: John **Corzine**

030-10-23-07209

10. He was born in Europe in 1951 and known for a curveball that helped him lead the Pirates to a World Series title in 1979. For 10 points each:

[10] Name this Dutch born pitcher who was inducted into the Baseball Hall of Fame in 2011.

ANSWER: Bert **Blyleven**

[10] Among the people not voted in were this admitted steroids user and former Cardinals and Athletics player broke Roger Maris's record by hitting seventy home runs in 1998.

ANSWER: Mark **McGwire**

[10] Another player who missed out was Barry Larkin, who played shortstop for this team from 1986 to 2004. They traded Adam Dunn to the Nationals and were led by Joey Votto in 2010.

ANSWER: Cincinnati **Reds** [or **Cincinnati** Reds]

015-10-23-07210

11. These paintings include one of a goat sitting in shadow while a circle of women looks on in fear. For 10 points each:

[10] Name these works, housed in the House of the Deaf Man, which include *Witches' Sabbath* and *Saturn Devouring his Son*.

ANSWER: **Black Paintings** [or **Pinturas negras**]

[10] This painting, which is paired with *Charge of the Mamelukes*, shows a Christ-like figure in white holding up his hands before Napoleon's forces execute him and his comrades.

ANSWER: *The* **Third of May, 1808** [or **El Tres de Mayo de 1808 en Madrid**]

[10] This Spanish painter is attributed with painting *The Colossus*, in addition to creating the Black Paintings and the *Third of May, 1808*.

ANSWER: Francisco José de **Goya** y Lucientes

080-10-23-07211

12. In the 1950s, a series of dams on the Old River cut off this river from the Mississippi, of which it used to be a tributary. For 10 points each:

[10] Name this long river, which forms most of the border between Texas and Oklahoma and runs through Louisiana to the Gulf of Mexico.

ANSWER: **Red** River of the South

[10] This Louisiana city sits across the Red River from Bossier City. It is named for the man who broke up the Great Raft, a 165-mile-long logjam that blocked the Red River in the nineteenth century.

ANSWER: **Shreveport**

[10] Shreveport is the center of a region named for Texas, Oklahoma, and this other state on the Red River's course, which is also the home to Hot Springs, Fort Smith, and Little Rock.

ANSWER: **Arkansas**

019-10-23-07212

13. Let's go on a journey with a Greek hero. For 10 points each:

[10] Name this son of Aegeus whose trek to Athens resulted in him battling all sorts of bad guys such as the robbers Sinis and Sciron as well as the nefarious "clubber" Periphetes.

ANSWER: **Theseus**

[10] The best known of the bandits is this bad guy who made travelers fit his bed by stretching them or cutting off their feet. Theseus turned the tables on this guy, though.

ANSWER: **Procrustes**

[10] Theseus' best known exploit involved venturing into the Labyrinth to slay this half-man, half-bull monster on the island of Crete.

ANSWER: **Minotaur**

052-10-23-07213

14. This empire was established after a victory over the Susu ruler Sumanguru at the Battle of Kirina. For 10 points each:

[10] Name this West African empire started by Sundiata Keita.

ANSWER: **Mali** Empire

[10] This mansa of Mali went on a luxurious hajj to Mecca that flooded the gold market of Cairo.

ANSWER: Mansa **Musa** I [or Kankan **Musa**]

[10] This other West African empire co-existed with the Mali Empire and was ruled for a time by Sonni Ali.

ANSWER: **Songhai** Empire

023-10-23-07214

15. Name some American playwrights, for 10 points each.

[10] This author of *Who's Afraid of Virginia Woolf?* more recently wrote *The Goat; or, Who Is Sylvia?*.

ANSWER: Edward Franklin **Albee** III

[10] This playwright wrote about a group of friends who plan to steal a coin collection in *American Buffalo*. He also wrote *Glengarry Glen Ross*.

ANSWER: David Alan **Mamet**

[10] This playwright wrote a cycle of ten plays, each set in a different decade, called the Pittsburgh Cycle.

ANSWER: August **Wilson**

024-10-23-07215

16. The title object is thrown into the Neva (NEE-vuh) River before being found by the barber Yakovlev. For 10 points each:

[10] Name this Russian short story in which the title object separates from Kovalyov.

ANSWER: “The **Nose**” [or “**Nos**”]

[10] “The Nose” was written by this Russian author who also wrote a novel in which Pavel Chichikov purchases the title *Dead Souls*.

ANSWER: Nikolai **Gogol**

[10] Gogol wrote this short story in which a civil servant named Poprischin loves his boss’s daughter, discovers love letters written by dogs, and thinks himself the king of Spain.

ANSWER: “**Diary of a Madman**” [or “**Zapiski Sumasshedsheg**”]; accept close translations]

079-10-23-07216

17. One early example of these is the Sierpinski carpet. For 10 points each:

[10] Name these self similar shapes instances of which include the Mandelbrot set and the Menger Sponge.

ANSWER: **fractal**

[10] The self similar nature of fractals means that they lend themselves to this type of definition, where an instance is defined in terms of a smaller or equal instance of the type.

ANSWER: **recursive** definition [or **recursion**]

[10] This fractal is found by taking the closed interval removing the open middle third interval and then repeating the process on the newly created closed intervals indefinitely.

ANSWER: **Cantor set**

001-10-23-07217

18. The title character is loved by Lord Darlington, who professes that he will be leaving the country in a short time after he perceives his love to be spurned. For 10 points each:

[10] Name this Oscar Wilde play in which an object left behind in a room may condemn its title character, who is herself suspicious of her husband's activities, to charges of unfaithfulness.

ANSWER: ***Lady Windermere's Fan***

[10] This character from *Lady Windermere's Fan* is originally the woman that Lady Windermere thinks her husband is having an affair with; little does she know that she is her mother.

ANSWER: Mrs. **Erlynne**

[10] This other Oscar Wilde play features the concept of bunburying, or creating a fake alias to give oneself a reason to get around societal obligations. Its characters include Jack Worthing and a ward named Cecily.

ANSWER: ***The Importance of Being Earnest***

040-10-23-07218

19. Charles de Lannoy’s troops broke through the walls of Mirabello, drowning many French in the Ticino River. For 10 points each:

[10] Name this final battle of the Italian War of 1525, in which the Spanish defeated the French under Francis I and made them sign the Treaty of Madrid.

ANSWER: Battle of **Pavia**

[10] The Battle of Pavia was won by this Spanish king and Holy Roman Emperor, who attempted to deal with the Protestant Reformation by convening the Diet (DEE-it) of Worms (VURMZ).

ANSWER: **Charles V** [or **Karl V**; or **Charles I of Spain**; or **Carlos I of Spain**; or **Carlos I de España**; prompt on **Charles**; prompt on **Karl**; prompt on **Carlos**]

[10] Charles V ensured the rule of this dynasty in Italy with his victory at Pavia. Charles was himself a member of this notoriously inbred family that ruled much of central Europe.

ANSWER: **Habsburg** [or **Hapsburg**]

079-10-23-07219

20. Arthur Stanley Eddington was the first to call this set of relations a "principle." For 10 points each:  
[10] Name this statement that two variables cannot be simultaneously measured to an arbitrarily high precision.

ANSWER: **Heisenberg Uncertainty** Principle [accept either]

[10] One formulation of the Heisenberg Uncertainty Principle involves simultaneous measurement of momentum and this other quantity that expresses where a particle is.

ANSWER: **position**

[10] The Heisenberg Uncertainty Principle is critical to the understanding of this interpretation of quantum mechanics named for a European city.

ANSWER: **Copenhagen** Interpretation

003-10-23-07220

21. This novel was published under the pseudonym Victoria Lucas, and begins with the main character landing a magazine internship in New York. For 10 points each:

[10] Name this semi-autobiographical work about the depressed and suicidal Esther Greenwood.

ANSWER: *The **Bell Jar***

[10] *The Bell Jar* was the only novel of this confessional poet of "Daddy" who herself committed suicide in 1963.

ANSWER: Sylvia **Plath**

[10] In this Plath poem, the speaker speaks to a "Herr Doktor" and proclaims "Out of the ash / I rise with my red hair / And I eat men like air."

ANSWER: "**Lady Lazarus**"

082-10-23-07221