

Sun 'n Fun IX: The Medusa Laughs Again, Or Avoiding the Curse of the Ninth...we hope
Packets by Ahmad Ragab et. al

Round 6

Tossups:

1.[AR]As a possible result of Dirac theory, Zitterbewegung could be used to explain this phenomenon. Experimental measurement of this phenomenon has revealed that the value of the electron spin g-factor is slightly larger than two. Providing an accurate measure for the fine-structure constant, its existence is supported by Quantum Electrodynamics, which requires an absence of vacuum polarization near the nucleus of the atom. Its presence was fully explained in the hydrogen spectrum in 1947 by Hans Bethe. Its discovery led to the 1955 Nobel Prize for its American namesake, for 10 points, name this slight energy difference between the 2p one-half and 2s one-half state in hydrogen.

ANSWER: **Lamb Shift**

2.[AR] He won a Globe Globe in 2008 for best original song for a motion picture, "Guaranteed," for the movie *Into the Wild*. The self-titled eighth studio album for this man's band, marking a return to form, released in 2006, features a half cut fruit on the cover, and is known by fans as the "The Avocado Album." While auditioning for the band that he would become most associated with, he sang the backup vocals to songs such as "Hunger Strike" for an album written in honor of Andrew Wood, who was the lead singer for Malfunkshun and Mother Love Bone, that album *Temple of the Dog* led to him joining up with members Jeff Ament and Stone Gossard for the band Mookie Blaylock. Recording such albums as 1994's *Vitalogy* and *Ten*, for 10 points, name this guitarist and lead singer for the Seattle-based grunge group, Pearl Jam.

ANSWER: Eddie **Vedder**

3.[AR] In this work, a number of names are either mispronounced or altered, for example Wonderhorn for Wordsworth, indicating the problem of communication, a topic relevant to the protagonist. The main character also renames an acquaintance by accenting a different syllable changing the meaning of her name to "the dark one." The protagonist, as the novel states, has managed to solve the problem of sex well by regularly cavorting with a prostitute named Soraya. The title condition begins when he seduces Melanie Isaacks, one of his students and does nothing to help himself and is continued when his daughter is brutally attacked on her farm. Telling the story of David Lurie a professor of Communication and Literature who loses everything, for 10 points, name this 1999 Booker Prize winning novel by 2003 Nobel winner J.M. Coetzee.

ANSWER: **Disgrace**

4.[AR]In the 1984 Postscript to this work the author added a third part, entitled "The Case for Tragic Optimism." Suggesting the most powerful arguments in that case are *ad hominem*, he quotes the Texarkana Gazette in describing the case of a quadriplegic who attends community college. In juxtaposing opposite portions of the human condition he states, "After all, man is that being who invented the gas chambers of Auschwitz; however, he is also that being who entered those gas chambers upright, with the Lord's Prayer or the Shema Yisrael on his lips." The second part of this book attempts to explicate the author's psychotherapeutic view, "Logotherapy in a Nutshell." For 10 points, name this work that chronicles the author's experiences in a concentration camp written by Victor Frankl.

ANSWER: **Man's Search for Meaning**

5.[AR]According to critic James Blue, this style represented the emergence of modern religion. Precursors to this style were developed by Dziga Vertov and Robert Drew, an American director, announced three commandments of "television's school of storm and stress" that would become the hallmark of this genre. The first films to exhibit this

style included one about anti-American sentiments in Latin America entitled *Yanki No!*, and one about winning the pole position at the Indianapolis 500. One film about the 1960 presidential race shot by Richard Learcock and Robert Maysles is often counted as the first film in this, titled *Primary*. Robert Frank's *Cocksucker Blues* deals with the Rolling Stones and another film deals with the musician Bob Dylan. For 10 points, name this film genre used in D.A. Pennebaker's *Don't Look Back*, whose name in French means "cinema of truth."

ANSWER: **Cinema Verite**

6.[AR]After decisive victory was attained at this battle, some scholars suggest that the victors pursued the remnant enemy forces to Pelusium while others suggest that the forces were demolished at Hamath. Sir Leonard Woolley and T.E. Lawrence excavated the site where this battle was fought just prior to World War I for the British Museum near Jerabalus. The Book of Daniel opens by recounting the capitulation of King Jehoiakim to the victorious forces, which resulted in the first deportation in what would become the Babylonian Captivity. Fought after the Fall of Harran, for 10 points, name this crushing defeat for the joint forces of Assyrians and Egyptians under the leadership of Pharaoh Necco II by Nebuchadnezzar's army in 605BCE.

ANSWER: Battle of **Carchemish**

7.[AR]Smith-Lemli-Opitz syndrome can cause an interruption in delivery of cholesterol leading to impaired steriodogenesis, a possible cause of this disease. Another cause, dysgenesis of the affected gland, can be brought about by mutations in the SF1 transcription factor or DAX-1 gene mutation. It was first described by its British namesake in 1855's *On the Constitutional and Local Effects of Disease of the Suprarenal Capsules*. Lawrence Wright in *The Looming Tower* suggests that Osama Bin Laden likely has this disease as he shows many of the common symptoms, which include fatigue, weight loss, hyperpigmentation of the skin and a craving for salty foods. For 10 points, name this rare endocrine disorder known to have been suffered by John F. Kennedy.

ANSWER: **Addison's** Disease

8.[AR]Prior to 1999 documentation of the United States's involvement in this was restricted to an FBI cable written by Robert Scherrer. Initiated when DINA chief Manuel Contreras invited General Brites to "a Working Meeting of National Intelligence," Phase III of this program began a few months later targeting Orlando Letelier and Jose Torres. Martin Almada in 1992 discovered the so-called Archives of Terror that documented Paraguay's involvement. Formally institutionalized in 1975, the key dictators involved in this campaign included Videla, Stroessner, and Augusto Pinochet. For 10 points, name this trans-South American political and military campaign to root out left-leaning anti-government sentiment in such countries as Argentina, Chile and Uruguay.

ANSWER: **Operation Condor** [accept "Dirty War" before 1975, prompt afterwards]

9.[RF+EO] A recent performance featured Natalie Dessay and Marian Seldes as well as tenor Juan Diego Florez, who performed the first solo encore at the Met since Pavoratti in 1994. The title character, Marie, is rescued from falling over a cliff by a young man, Tonio, whom she falls in love with. However, her "fathers" decree that she can only marry a grenadier; thus, Tonio enlists, singing the aria "Ah! mes amis", known as the "Mount Everest for tenors" for its series of 9 high Cs. Marie is nearly forced to sign a marriage contract by the Marquise of Birkenfeld and the Dutchess of Krakenthorp but the soldiers, led by Tonio, burst in to save her. For 10 points, , name this comic opera by Gaetano Donizetti about a girl raised by a group of soldiers.

ANSWER: **The Daughter of the Regiment** [or **La Fille du Regiment**]

10.[RF] "Folks, I'm telling you,/Birthing is hard/And Dying is mean/So get yourself/Some loving in between", he writes in "Advice", while "To fling my arms wide/In some place of the sun" begins his "Dream Variations". "They'll see how beautiful I am/And be ashamed" he concludes in "I, Too". "Go home and write/a page tonight./And

let that page come out of you/Then, it will be true." says the instructor in his "Theme for English B," while "Droning a drowsy syncopated tune/Rocking back and forth to a mellow croon" begins his "The Weary Blues". His most famous works contain the lines "Does it dry up like a raisin in the sun?" and "My soul has grown deep like the rivers". For 10 points, name African-American poet of "Harlem" and "The Negro Speaks of Rivers".

ANSWER: Langston **Hughes**

11.[AR] Otto Neurath borrowing from Marx held that social science devoid from metaphysics would imply that this did not exist for humanity. Claude-Adrien Helvetius' in his work, *De L'Esprit* took the opposite extreme, and was condemned by the Church for his radical environmental determinism. Henry More disagreed with its popular formulation and suggested there is indeed an active sagacity in the Soul and according to the Platonic dialogue the *Meno*, the untutored slave boy's recollection of a geometric theorem denies the existence of this. Expressed in relation to innate knowledge in *An Essay Concerning Human Understanding*, for 10 points, name this epistemological thesis popularized by John Locke, which claims that humans are born with no innate ideas or mental content, Latin for "blank slate."

ANSWER: **Tabula Rasa**

12.[AR]Furnster in an elegant alkyne type of this reaction utilizes the fact that partial reduction of the triple bond using Lindlar-type procedures gives access to any given isomer at will. Also in this type of reaction metal-carbenes such as Shrock and Grubbs type will serve as catalyst precursors in this type of reaction. An example of this type of reaction involves silver nitrate and salt to yield Silver chloride and sodium nitrate. In another type of this reaction involves exchanging of carbon-carbon double bonds between alkenes. Originally known as a double replacement or double displacement reaction, for 10 points, name this general class of reactions with a well-known olefin version.

ANSWER: **Metathesis** Reaction [do not accept Olefin Metathesis after "silver nitrate" accept double dis/replacement before mentioned]

13.[RF] The earliest of these was done in silverpoint when the artist was only 13 and the subject is depicted making a pointing gesture. Later ones also on paper include a full body nude and another depicting the subject as the Man of Sorrows. The most famous are the three painted versions: the earliest of a bashful fey youth holding a flower, while the second is a confident subject, with beard and gloves, in front of a landscape seen through a window on the right. In the most famous, the background is black with only the artist's signature, inscription, and the date 1500, while the subject, depicted wearing a fur coat and making an odd gesture with his right hand, stares straight out at the viewer and has drawn visual comparisons with Jesus. For 10 points, , name these series of works in which a German Renaissance artist has depicted himself.

ANSWER: the **self-portraits** of Albrecht **Durer** [accept equivalents]

14.[AR]In a conference recently held in March to discuss this work Suzanna Daou, the sister of the author, revealed that she was offended by a chapter as it targeted her husband's Lebanese family. That chapter, "Arabs & Other Animals," has a scene where the Lebanese brother-in-law makes a pass at the protagonist. That conference discussed whether this feminist classic could stand as an American classic. Telling the story of an unpublished poet on a trip to Vienna with her second husband, she decides to engage in her fantasies with other men, with of course controversially sexy results. Coining and popularizing the term "zipless fuck," as a platonic ideal the novel opens with Isadora Wing mentioning that the 117 psychoanalysts on her plane makes the title condition all the more amusing. For 10 points, name this feminist classic by Erica Jong.

ANSWER: ***Fear of Flying***

15.[AR+AN]According to the first section of the Prose Edda, a character rebuffs the God's for their lack of foresight in its creation, though Harr responds that nothing in this world can be relied on "when the sons of Muspell go a-harrying." Also known as Asbru, referring to its manufacturers, some modern scholars hold it was misinterpreted by Snorri Sturluson, and originally represented the Milky Way. It was said to be built of red fire, green water and blue air by the Aesir, who took it to the Well of Urd, which was their place of judgment under Yggdrasil. According to the Poetic Eddas, it will be destroyed by the Fire Giants at Ragnarok. Himinbjorg, the hall of Heimdallr is located at its upper end, which is appropriate seeing as he is its guardian. For 10 points, name this bridge between Asgard and Midgard from Norse Myth.

ANSWER: **Bifrost** [accept **Rainbow Bridge**]

16.[AR]Indications that it might be happening include the presence of rain, and/or light fog. It is defined in the scripture as being better than a thousand months, and in the Shia tradition repeating surah 97, in which it is described 100 times is a common practice. In some traditions it is believed that your fate during the next year is determined based on the actions of the previous. It is also believed that the Quran descended to Earth during this event, and it is emphasized in the Sunni tradition that it is likely on the 27th. Occurring on an odd numbered day of the last week of Ramadan, for 10 points, name this event where it is believed that the Prophet Muhammad received the first verses of Quran from the Archangel.

ANSWER: **Night of Power** [or **Laylat al-Qadr**]

17.[AR]The trace of a function's related Hessian is known as this, while the d'Alembertian can be defined as this operator on a flat manifold of Lorenzian signature, and the square of this is known as the biharmonic operator. This operator is useful for modeling heat flow and wave propagation and thus forms part of the Helmholtz Equation, and for the non-relativistic form of the Schrodinger Equation it corresponds to the kinetic energy term. For 10 points give this operator defined in Euclidean space as the divergence of the gradient, denoted del-squared and named after a French mathematician.

ANSWER: **Laplacian** or **Laplace Operator**[accept **del-squared** before mentioned]

18.[AR]According to a Miami Herald Report, Mohammed Atta, one of the September 11 attackers might have used a passport from this polity. Its flag features the Northern and Southern Cross on a blue background with a golden sun in the middle. The first Prime Minister of this breakaway republic, Dennis Wardlow, declared this area's independence on April 23, 1982 in Mallory Square, and established uniquely named consulates in New Orleans and Maine. With its northern boundary established at "Skeeter's Last Chance Saloon," tensions began in this region when the U.S. Border Patrol blocked access to the A1A through Monroe County, the primary route from which to access this land, reducing tourism. For 10 points, name this tongue-in-cheek micronation established in the Florida Keys.

ANSWER: **Conch Republic**

19.[AR]Early theoretical work on this includes McCarthy's paper on LISP and the Michigan Executive System for the IBM 7090 explicitly notes rudimentary capability due to the nature of its assembler and loader. Further evolutions in this technique included the slim binaries in Oberon that allowed dynamic modules, which were machine-independent, and the experimental language LC-squared was perhaps the first language have the basic tools of this feature and it would go on to influence Smalltalk and Self. Resolving the time-space tradeoff, the newest variations of this programming concept are known as AOT and its current implementation in the JVM is known as HotSpot. For 10 points, name this compilation technique that takes advantage of both interpreted language and static compilation techniques that is rather Johnny-on-the-Spot.

ANSWER: **Just-In-Time** Compiling [accept **Runtime** or **Dynamic** Compilation]

20.[AR] While working for the newspaper Tribuna he wrote a number of critical articles under the pseudonym, Duke of Nothing. He showed literary promise early, publishing his first collection of poems at the age of sixteen, *Primo Vere*. His first published novel tells the story of the decadent artist Andrea Sperelli and his quest for sensuous beautiful things, 1898's *The Child of Pleasure*. Forced into exile by creditors, he wrote a play famously set to music by Claude Debussy of which Marcel Proust noted that the most interesting thing about *The Martyrdom of Saint Sebastian* was Ida Rubinstein's legs. This figure is also known for his involvement in the Fiume Incident and his brief declaration of war on Italy. Author of such other works as *The Intruder*, for 10 points, name this author of the *The Triumph of Death* infamous for his support of Mussolini and Fascism.

ANSWER: Gabriele **d'Annunzio** [accept Gaetano **Rapagnetta**]

TB.[AR]His monetary theory revived the work of the British Currency School, which suggested that society does not benefit from the increase in the money supply. He cites credit expansion along with inflation as the primary causes of “mal-investment,” that is the overinvestment in higher order goods rather than consumer goods. A student of Bohm-Bawerk in his 1920 article “Economic Calculation in the Socialist Commonwealth,” he demonstrates that it is impossible for a central planning board to plan a modern economy. His comprehensive treatise on economic theory was contained in the voluminous *Human Action*, in which he utilized his “praxeological” principles. His free-market and classic liberal theoretical stance made him a staunch opponent of Keynesian economic policy discussed in such works as *Interventionism* and *Liberalism*. For 10 points, name this Austrian School economist author of *The Theory of Money and Credit* and *Socialism* the teacher of Nobel Prize winner F.A. Hayek.

ANSWER: Ludwig **von Mises**

TB. [JR] This day is celebrated in Binche, Belgium with a party proclaimed in 2003 as one of the “Masterpieces of the Oral and Intangible Heritage of Humanity” by UNESCO. Since the 12th century in France, it has been celebrated it by eating “King Cake”--an oval-shaped pastry decorated in the colors representing gold, frankincense, and myrrh, and containing a coin or bean (or today, a plastic baby Jesus) thought to bring good luck. First observed in America by French explorers in 1699 but banned by the Spanish in the Louisiana territory from the mid-1700s until 1827, for 10 points, name this holiday whose name literally means “Fat Tuesday.”

ANSWER: **Mardi Gras** Day, or **Shrove Tuesday**, or **Pancake Day** [accept **Fat Tuesday** before mention; prompt on “Carnival”]

Bonuses:

[AR]In April 1926, one writer asked another to send a copy of his "Duino Elegies" to another young writer expatriated in France, for 10 points answer the following about this famed tripartite correspondence.

[10]This author of *The Blind Beauty: A Play* and *My Sister Life* initiated the request, he is better known for a novel about a sensitive and poetic medical doctor and his love Lara.

ANSWER: Boris Leonidovich **Pasternak**

[10]This is the aging German poet to whom Boris Pasternak initiated correspondence, a reclusive and often ill poet who probably found all the attention taxing so close to the end of his days.

ANSWER: Rainer Maria **Rilke**

[10]The initial request was prompted when Pasternak read this female Russian expatriate's "Poem of the End," she was criticized abroad for her insufficient anti-Soviet sentiment, especially for her public admiration for Mayakovsky, she is perhaps better known for her collections *Psyche* and *Mileposts*

ANSWER: Marina **Tsvetaeva**

[AR]Typically involving a carbocation intermediate and occurs in reactions of secondary alkyl halides and secondary alcohols, for 10 points:

[10]Name this reaction mechanism in which the rate-determining step is unimolecular and upon formation of the carbocation, nucleophilic attack occurs.

ANSWER: **SN1**

[10]The SN1 reaction tends to dominate over the SN2 when the central carbon atom is surrounded by large substituents due to this phenomena where the size of the molecules interfere with the reactivity or conformation of a molecule due to electron cloud overlapping and repulsion.

ANSWER: **Steric Hindrance**

[10]This principle or postulate predicts that due to inductive stabilization and hyperconjugation in the SN1 reaction, the rate of carbocation formation will be increased due to the close approximation of the unstable intermediaries in transitions states to the intermediaries themselves.

ANSWER: **Hammond**-Leffler Postulate

[AR]It can be used to predict changes in the overall economic community as the result of local economic changes, for 10 points:

[10]Name this matrix based analysis framework a modernization of Quesnay's *Tableau Economique*.

ANSWER: **Input-Output** Analysis

[10]Input-Output analysis was developed by this Russian winner of the 1973 Nobel for Economics.

ANSWER: Wassily **Leontief**

[10]Leontief along with John Hicks developed this theory based on goods whose prices do not vary with respect to one another and thus can be treated more monolithically.

ANSWER: **Composite Commodity** Theorem

[AR] Answer the following about a story of revenge during the Genroku Era of Japan, for 10 points each:

[10]In a comprehensive display of the consequences of bushido ethics, this titular number of leaderless samurai take protracted revenge for their daimyo, Asano Naganori, who was forced to commit seppuku after assaulting a court officer.

ANSWER: **47 Ronin**

[10] The exploits of the 47 Ronin took place during this division of Japanese history proceeding the Meiji Restoration also known as the Tokugawa Shogunate

ANSWER: **Edo** Period

[10]The target and enemy of the 47 Ronin was this master of ceremonies who had the title of *Kozuke no suke*, and who had a short-sword drawn on him by Naganori while in preparation for a visit by the Emperor.

ANSWER: **Kira** Yoshinaka

[AR] Name these major industrial gaffs in US History, for 10 points each:

[10]This plant operated by Metropolitan Edison Company located near Harrisburg Pennsylvania experienced a partial meltdown of the second reactor in 1979 leading to the worst civilian nuclear accident on US soil

ANSWER: **3 Mile Island**

[10] This area, a neighborhood in Niagra Falls, NY was the subject of controversy when it was discovered that it had been the sight of a toxic waste dump in the decades prior, it was declared a disaster area by Carter in 1978

ANSWER: **Love Canal**

[10]Occurring at the North End neighborhood of Boston on January 15th, 1919 at the Purity Distilling Company the collapse of a tank led to 12ft high wave of the title substance to sweep across the city killing dozens and injuring

hundreds, local folklore suggests that the lingering aroma can be smelled on hot days.

ANSWER: **Boston Molasses Disaster** [accept anything that mentions a lot of Molasses in Boston]

[JB] Because the library in hell is likely lined with them, name these works of Henry James, for 10 points each:

[10] Serialized in *The Century Magazine* before its 1886 publication, this novel is noteworthy in that it is James' only work set entirely in America, with American characters. The story concerns Basil Ransom's pursuit of the idealistic and eloquent Verena Tarrant.

ANSWER: **The Bostonians**

[10] James considered this his last full-length novel. Miriam Rooth and Nick Dormer are the two central characters, the former an aspiring painter, the latter a would-be actress who moves off to Paris early in the work. Miriam is cast by James as the titular figure.

ANSWER: **The Tragic Muse**

[10] Praised heavily by British critic F.R. Leavis for its reliance on dialog and shifting perspectives, this novel of James' "middle period" documents the coming of age of Nanda Brookenham, who is exposed to her parents' decadent social coterie, and to whom the aristocratically raised Agnesina serves as a foil.

ANSWER: **The Awkward Age**

[AR] Give the following about a theorem of classical statistical mechanics, for 10 points each:

[10] It states that for molecules in thermal equilibrium have the same average energy equal to one-half kT per independent degree of freedom for their motion

ANSWER: **Equipartition** Theorem

[10] The Equipartition theorem can be used to derive this doubly-eponymous law, named after two French chemists, which states that the specific heat capacity of crystal is equal to three times the gas constant R divided by the molar mass.

ANSWER: Law of **Dulong-Petit**

[10] The Law of Dulong-Petit works well for high temperatures, but at low-temperatures where the quantum mechanical properties of crystal start to dominate this model predicts phonon contribution to the specific heat capacity of solids and is named after a Dutch physicist.

ANSWER: **Debye** Model

[RF] Answer these questions about self-portraits and sacrilege, for 10 points:

[10] This ancient Greek sculptor was thrown in prison and/or exiled, depending on whose account you believe, for including a self-portrait on the shield of his statue of Athena for the Parthenon.

ANSWER: **Pheidias**

[10] Of this photographer's many provocative works is a self-portrait in which he is pulling a bullwhip out of his own anus.

ANSWER: Robert **Mapplethorpe**

[10] "What is this shit?" demanded music critic Greil Marcus about this man's 1970 terrible album *Self Portrait*, which followed on the heels of his previous year's foray into country music, *Nashville Skyline*.

ANSWER: Bob **Dylan**

[JB] In an interview, the author's wife related that the idea for the novella came during a chance encounter at a dinner table with a large noble family, and the author's fascination with the youngest son, Baron Wladyslaw Moes:

[5] First, for 5 points, the young Baron served as the inspiration for Tadzio, in what Thomas Mann work?

ANSWER: **Death in Venice** [accept *Der Tod in Venedig* from Horst]

[10] For 10 points, name the protagonist of the novella, an author and academic in his late 50s.

ANSWER: Gustav Von **Aschenbach**

[5] For another 5 points, of what disease does Aschenbach finally succumb, after being repeatedly warned by his British travel agent to evacuate the city, and even warning Tazio's mother of the impending outbreak?

ANSWER: **Cholera**

[10] For a final 10 points, Gustav Aschenbach is described as the author of an articulate and powerful epic prose work about the life of what historical statesman?

ANSWER: **Frederick the Great**

[AR] Answer the following about a second century AD work of philosophy, for 10 points:

[10] This work is an exposition of the title concept that seeks to reveal the errors of every positive program of thought by showing that "To Every Argument an Equal Argument is supposed;" the eponymous philosophical tradition is named after a thinker from Elis

ANSWER: **Outlines of Pyrrhonism**

[10] The *Outlines of Pyrrhonism* was written by this Roman philosopher author of such works as *Against the Mathematicians*.

ANSWER: **Sextus Empiricus**

[10] Sextus Empiricus belongs generally to this philosophical tradition that doubts the possibility of true knowledge, Descartes was heavily influenced by this tradition, as was that loser Hume.

ANSWER: **Skepticism**

[RF] Identify these films from the Muslim world, for 10 points each:

[10] Syrian-American director Moustapha Akkad created this 1977 film about the life of the Prophet. Though Mohammad was not depicted onscreen, the film still was controversial to those concerned about prohibitions on idolatry.

ANSWER: **Mohammad, Messenger of God** or **The Message**

[10] To Westerners, it is perhaps the most famous example of the burgeoning film industry in Iran. The debut film of Jafar Panahi, in this work Razieh and her brother use the title object to retrieve the money they need to buy a fat goldfish for the Iranian New Year celebration.

ANSWER: **The White Balloon**

[10] Westerners Billy Zane and Gary Busey starred in this Turkish film about the Iraq war featuring crazed American commandos and Jewish doctors who steal organs, famed film critic Ezequiel Berdichevsky suggests that it shares an affinity with "The Unfortunate Traveler."

ANSWER: **Valley of the Wolves Iraq** (**Kurtlar Vadisi Irak**)

[AR] It plays a role in genome expression and maintenance, for 10 points each:

[10] Name this mechanism which inhibits gene expression at the stage of translation by blocking transcription of specific genes and blocks the successful replication of viral genetic material.

ANSWER: **RNAi** or **RNA interference**

[10] This enzyme catalyzes the first step in the RNAi pathway, and is named so because of its ability to "chop up" viral RNA strands.

ANSWER: **Dicer**

[10] The dicer enzyme allows this protein complex to bind to and cleave incoming viral RNA strands, this complex has also been studied in conjunction with post-transcriptional gene silencing.

ANSWER: **RNA-induced silencing complex** or **RISC**

[AR]She was born 421 years ago on an island off the Coast of North Carolina, for 10 points:

[10]Name this girl, credited with being the first child born to English parents in the Americas who were part of a colonization effort headed by Sir Walter Raleigh.

ANSWER: **Virginia Dare**

[10]Virginia Dare and the rest of the Roanoke colony mysteriously disappeared, the only clue of their whereabouts was this word carved into a tree.

ANSWER: **Croatoan**

[10]We know of Virginia Dare's birth because this man, her maternal grandfather and governor of the colony, returned to England to gather more supplies.

ANSWER: John **White**

[AR]It was first described in a third-century book by the mathematician Sun Tzu, for 10 points:

[10]Name this theorem that states that for a set of pairwise co-prime integers n , there exists an integer x which solves a system of congruences of the form $a \pmod n$.

ANSWER: **Chinese Remainder** Theorem

[10]The Chinese Remainder theorem is an example of modular arithmetic, first elucidated in this German mathematician's *Disquisitiones Arithmeticae*.

ANSWER: Carl Friedrich **Gauss**

[10]This important concept from modular arithmetic is the remainder r of an integer of base b where the largest multiplier with b has been subtracted leaving r greater than 0.

ANSWER: **Residue**

[AR]Name these famous presidential speech writers, for 10 points each:

[10]This speechwriter for Kennedy, was described by him as his intellectual blood bank, Kennedy haters speculate he wrote most or all of *Profiles in Courage* and was nominated by Carter to be the Director of Central Intelligence, he also wrote the 1996 book, *Why I am a Democrat*.

ANSWER: Theodore "Ted" **Sorensen**

[10]This speech writer for Nixon was a longtime syndicated political columnist for the New York Times, he is credited for creating the phrase used by Spiro T. Agnew to refer to defeatists regarding the Vietnam conflict, "nattering nabobs of negativism."

ANSWER: William "Bill" **Safire**

[10]Along with Pat Buchanan this other Nixon speechwriter has had a more visible career appearing in a number of movies and television shows, including a game show where one could win his money, he has recently denounced the theory of evolution citing it as a cause of the Holocaust, "Bueller?...Bueller?"

ANSWER: Ben **Stein**

[EO] Name these composers who really don't have much in common, for 10 points each:

[10] His earliest pieces, such as *Panqueca*, originated as guitar improvisations. However, he's better known for his Symphony Number 2 (the Ascension), the music for the movie *Green Mansion*, though much of it was replaced by the music of Bronislaw Kaper, and his *Bachianas brasileiras*, or "Brazilian Bach" pieces.

ANSWER: Hector **Villa-Lobos**

[10] This Russian member of The Five composed pieces such as his *Capriccio Espanol*, the opera *Snow Maiden*, The Russian Easter Overture, and *Scheherzade*. His most famous work comes from the third act of his opera *Tsar Saltan*.

ANSWER: Nikolai **Rimsky-Korsakov**

[10] This English composer wrote works such as *A London Symphony* (Symphony no. 2), the Aristophanic suite *The Wasps*, the opera *The Pilgrim's Progress*, *Sinfonia Antarctica*, and the piece *The Lark Ascending* for violin and orchestra.

ANSWER: Ralph **Vaughan Williams**

[AR] Beginning with the work Herman Samuel Reimarus, for 10 points:

[10] Name this sub-discipline of religious studies, in which the actual biography of the eponymous figure is sought after rather than focus on the theological or metaphysical import of the figure as described in the gospels.

ANSWER: **Historical Jesus** [accept clear knowledge equivalents]

[10] This German thinker author of *The Life of Jesus, Critically Examined*, attempted to separate the supernatural and miraculous Christ, from the Historical Jesus, he was also excoriated for his perceived attack on Christianity in *The Old Faith and New*.

ANSWER: David Friedrich **Strauss**

[10] This author in his survey, *The Quest of the Historical Jesus* concludes that most biographical reconstructions represent little more than idealized versions of the constructor.

ANSWER: Albert **Schweitzer**

[RF] Name the fictional analogues in *On the Road* from information about the real life of the Beat Generation figure depicted, for 10 points each, remember I want the fictional character's name:

[10] In real life this author wrote the novel *On the Road*

ANSWER: Sal **Paradise**

[10] His autobiography, *The First Third*, tells of his experiences with Jack Kerouac and as the bus driver for Ken Kesey and his Merry Pranksters.

ANSWER: Dean **Moriarty**

[10] Some of this Beat author's works include *Junky* and *Naked Lunch*

ANSWER: Old **Bull Lee**

[JR] Identify these preeminent soccer players for 10 points each.

[10] This Brazilian midfielder playing for AC Milan was named 2007 European and World Footballer of the Year.

ANSWER: **Kaká**

[10] This speedy 20-year-old Argentine striker starring for FC Barcelona has scored 32 goals over the past two seasons, but is oft-injured.

ANSWER: Lionel **Messi**

[10] This defender who captains the Italian national team and plays for Real Madrid is the only fullback to win FIFA World Player of the Year honors.

ANSWER: Fabio **Cannavaro**

[RF] Identify the John Keats Ode from the opening lines for 10 points each.

[10] Thou still unravish'd bride of quietness,/Thou foster-child of silence and slow time

ANSWER: **Ode on a Grecian Urn**

[10] My heart aches, and a drowsy numbness pains/My sense, as though of hemlock I had drunk,

ANSWER: **Ode to a Nightingale**

[10] O Goddess! hear these tuneless numbers, wrung/By sweet enforcement and remembrance dear,

ANSWER: **Ode to Psyche**