**BATE Quizbowl Tournament**

**Finals Packet 1**

1 **This composer’s eighteen Opus 33 and Opus 39 etudes for piano include “The sea and the seagulls” and “A scene at the fair.” His *Fourteen Songs* ends with his plaintive *Vocalise*. This composer inverted the theme of an A minor caprice into D flat major in the “Andante cantabile” eighteenth variation of one of his works. He grew to hate the astounding popularity of his Opus 3 Number 2 *Prelude in C sharp Minor*, and often performed duets at home with his good friend Vladimir** Horowitz, who gained renown for performing this composer’s notoriously difficult third piano concerto. For 10 points, name this Russian composer of *Rhapsody on a Theme of Paganini*.
ANSWER: Sergei **Rachmaninoff**

2 **In this election, the loser was placed with both Georgia Senator Thomas Watson and Maine businessman Arthur Sewall on the ballot. Political scientists view this election as ushering in the Fourth Party System. The winner ran with New Jersey politician Garret Hobart as his running mate, while the loser ran the first ever train tour campaign and focused most of his campaign on Free Silver. The winner of this election was managed by Ohio businessman** Mark Hanna while the loser delivered the Cross of Gold Speech. For 10 points, name this election which saw William Jennings Bryan lose his first bid for the presidency and which saw William McKinley win his first term.

ANSWER: United States Presidential Election of **1896**

3 **In *Xenopus,* this process sees movements like ingression, invagination, involution, epiboly and convergent extension. It occurs along a feature called the primitive streak and sees cells undergo an epithelial to mesenchymal transition in order to migrate and proliferate. During it, the mammalian embryo loses radial symmetry and gains bilateral symmetry. This process sees the emergence of the** ectoderm, mesoderm and endoderm and occurs after a stage called the blastula. For 10 points, name this process in the development of an embryo which sees the emergence of three germ layers.

ANSWER: **gastrulation**

4 **One character in this play speaks in a comical tone described as a jargon of half Italian and half Spanish. In this work, a man tells his wife that she should live with another man she loves more; when that second husband dies, she reluctantly moves back. The main characters of this work first appear interrupting a rehearsal of the play *Mixing it Up.* One character in this play nearly has an affair with a member of his own family while working as a prostitute for** Madame Pace. The father, mother, son and stepdaughter appear in, for 10 points, what play by Luigi Pirandello about a group of creations that lack a creator?

ANSWER: ***Six Characters in Search of an Author*** (accept ***Sei personaggi in cerca d'autore***)

5 **According to the *Bhagavata Purana*, early in life this figure was named *makhan chor*, or butter thief, and once tamed the serpent Kaliya, upon whose many hoods he dances. An alternate source states that at the end of his life, this figure was shot in the left foot while meditating and subsequently died. He once married 16,100 maidens but may be more famous for aiding a** Pandava brother during the great Kurukshetra War. With a name meaning “black”, for 10 points, name this eighth avatar of Vishnu who advised Arjuna on war in the *Bhagavad Gita*.

ANSWER: **Krishna**

6 **Malpeque Bay is a wetland region found in the northwest portion of this province, commonly nicknamed the “Garden of the Gulf”. This province, whose capital was named after the consort of George III, is the primary setting for Lucy Montgomery’s *Anne of Green Gables* and was named for the Duke of Kent who fathered Queen Victoria. This province lies north of Northumberland Strait and east of Cape Breton Island.** Charlottetown is the capital of, for 10 points, what smallest Canadian province north of New Brunswick and Nova Scotia that consists primarily of one island?

ANSWER: **Prince Edward Island** (do not accept just “Prince Edward”, since the province name is being asked for, the full name is needed)

7 **Examples of these include ones titled *Pulled at 4 pins* and *50 cc of Paris Air*, which actually contained air from Paris brought to New York. One is a snow shovel with the title *In advance of the broken arm* painted onto it, and another is a bicycle wheel mounted by its fork on a painted stool. More famous examples of these works of art include a postcard of the Mona Lisa with a** goatee and moustache painted on titled *L.H.O.O.Q.* and a porcelain urinal with the inscription “R. Mutt” titled *Fountain*. Simply ordinary objects modified in strange way were the basis of, for 10 points, what works of “retinal art” created by Marcel Duchamp.

ANSWER: **readymades** of Marcel Duchamp (prompt on less specific answers like “works by Marcel Duchamp”)

8 **This event ended with the Chernigov Regiment revolt. Early elements of this event formed the Union of Salvation and the Union of Prosperity; the collapse of those groups led to the formation of the Northern Society who named Prince Trubetskoy as dictator. Led by Pavel Pestel, members of this uprising sought the creation of a constitutional monarchy and the abolition of serfdom following the death of** Alexander I. This event saw a failed attempt to seize the Winter Palace and it was led by a group of soldiers who protested the removal of Constantine in favor of the assumption of Nicholas I as emperor. For 10 points, name this Russian revolt of 1825.

ANSWER: **Decembrist** revolt or **Decembrist** uprising (prompt on “Russian revolt of 1825” or equivalents)

9 **One model that describes how viscosity changes with temperature in amorphous materials takes the form of this equation. The Eyring-Polanyi equation is an alternative to this equation based on transition state theory. One term in this equation is sometimes referred to as the steric factor and is derived from** collision theory. This equation contains the negative exponential of the activation energy divided by the product of the universal gas constant and temperature, along with a term called the pre-exponential factor. For 10 points, name this equation of chemical kinetics that calculates a reaction’s rate constant, developed by a Swedish chemist.

ANSWER: **Arrhenius** equation

10 **Gimpei Momoi asks Hisako to help with his foot problems in this author’s novel *The Lake*. Old Eguchi spends time with women at the title location of one of this man’s works, and he wrote about Chieko’s discovery of her twin Naeko in** *The Old Capital*. This author of *The House of the Sleeping Beauties* wrote about Shuichi’s infidelity to Kikuko in a book in which Shingo Ogata questions his family life, and described Minoru Kitani’s triumph in 237 moves over Honinbo Shusai, who held the titular designation for his skill. For ten points, identify this Japanese author of *The Sound of the Mountain* and *The Master of Go*.

ANSWER: **Kawabata** Yasunari

11 **This man has launched a series of moral codes known as the Eight Honors and Eight Shames. Early in his career, he sent in troops to put down riots on the 30th anniversary of the 1959 Lhasa Uprisings while head of the Tibet Region. The beginning of his term was marked with the outbreak of** SARS while in 2008 his government dealt with a massive earthquake in the Sichuan province. This man succeeded Jiang Zemin in his highest position and he currently serves alongside premier Wen Jiabao. For 10 points, name this General Secretary and current leader of China.

ANSWER: **Hu** Jintao

12 **This man’s thesis expanded on Johann Herder’s *Origin and Language,* using Eskimo languages as examples. This author of *Language: An Introduction to the Study of Speech* classified American Indian languages into six families and developed the idea of “language drift”. While working with Alfred Kroeber, he investigated the Yana language spoken by Ishi. Working with one of his students, he developed an idea that states that one’s language determines the way one** thinks, popularly supported by the many word in the Inuit language for snow. For 10 points, name this man who developed a theory of linguistic relativity with his student Benjamin Whorf.

ANSWER: Edward **Sapir**

13 **Supporters of this leader were killed during the Ezeiza massacre. This man headed the Department of Labor following a 1943 coup led by the GOU movement. His policy was known as the “third way” or “Justicialismo”, an attempt to keep his country out of the Cold War. Supporters of this man were known as the “shirtless ones”. He was exiled from his country from 1955-1973 following a 1955 coup in which he was rescued by a boat sent by Alfredo** Stroessner. After his 1974 death, the country he ruled was succeeded by his third wife Isabel. For 10 points, name this long time president of Argentina during the 20th century, known for his charismatic wife Evita.

ANSWER: Juan **Peron**

14 **At large values, this function can be approximated with the Lanczos approximation, an alternative for the Stirling approximation. This function, equal to the square root of pi at one half\*, is defined as the integral from zero to infinity of t to the power of z minus one times *e* to the negative t. This function is not defined for non-positive** integers and is noted for the fact that this function’s value at z plus one is equal to z times this functions value at z, allowing it to be defined recursively. For 10 points, name this function that provides an extension of the factorial function.

ANSWER: **gamma** function (prompt on “factorial” until \*)

15 **This poet wrote that God “lives in all, and never strayed / a moment from the works he made” in a poem “On the Universality and Other Attributes of the God of Nature”. This author wrote of a “fair flower” that is “hid in this silent, dull retreat”. That poem ends with a lament that “unpitying frosts, and Autumn's power / shall leave no vestige of this flower” before declaring “the space between is but an hour / the frail duration of a flower”. In another poem, this man wrote that “the** posture, that we give the dead / points out the soul's eternal sleep” in a work about a place where the titular figure is “again seated with his friends”. For 10 points, name this American poet of “The Wild Honey-Suckle” and “The Indian Burying Ground”.

ANSWER: Philip **Freneau**

16 **The namesake of this painting was an official responsible for giving money for the enlargement of the church of Santo Tome. It was commissioned by Andres Nunez, who stands at the right reading. At the front, a man with outstretched arms stands in front Saint Stephen and Augustine, both of whom wear elaborate golden ornaments. Most art scholars acknowledge the existence of an upper heavenly** half and a lower terrestrial half in this painting. The lower terrestrial half shows a group of noblemen in black robes in front of the body of a native of Toledo. For 10 points, name this painting by El Greco that depicts the burial of a Spanish official.

ANSWER: *The* ***Burial of*** *the* ***Count*** *of* ***Orgaz***

17 **A group led by Diego Almagro assassinated this man. The Capitulation of Toledo authorized this man’s most famous campaign; that successful campaign would be threatened by a rebel group led by Manco Capac. He accompanied Vasco de Balboa in his voyage to Panama and launched a successful ambush at the Battle of Cajamarca; that attack took place shortly after the death of** Huascar. This man installed the puppet ruler Tupac Huallpa shortly after attacking Cuzco; earlier he had captured Atahualpa. For 10 points, name this Spanish explorer who conquered the Incan empire.

ANSWER: Francisco **Pizarro**

18 **According to various stories, this individual buried Moses, delivered the destruction to Sodom and Gomorrah and delivered the prophecy of seventy weeks of years. In another story, this man told Zechariah of the birth of John the Baptist. In the Bible, this man interprets the visions of** Daniel. He also is believed to blow a horn at the second coming of Christ. In another faith, this man appeared before a prophet to deliver the word of God at the Cave of Hira. For 10 points, name this archangel, who according to Islam was the medium through which God delivered the Quran to Mohammed.

ANSWER: **Gabriel** or **Jibril**

19 **One process known as a practical form of this process uses an isobaric process for its addition and rejection processes. This process gives an upper limit of efficiency equal to one minus the temperature of the cold reservoir divided by the temperature of the hot reservoir, thus this process gives a quantifiable limit to the second law of thermodynamics. This process sees no change in entropy and contains** four steps; the first step is the isothermal expansion of a gas to drive a piston. For 10 points, name this idealistic process that describes the most efficient heat engine, a non-obtainable process developed by a French physicist.

ANSWER: **Carnot** cycle

20 **This author collaborated with Charles Dickens on a play called *The Frozen Deep*. He wrote about Vetranio’s desire to gain the forgiveness of his daughter in *Antonina*. Close relatives vie for Andrew Vanstone’s wealth in his novel *No Name*, and this man also wrote a work in which Laura Fairlie is constantly targeted for her wealth. In addition to *Armadale* and** *The Woman in White*, this author created the detective Dr. Cuff, who attempts to investigate the theft of a yellow gem that belonged to Rachel Verinder. For ten points, identify this Victorian British novelist who penned *The Moonstone*.

ANSWER: Wilkie **Collins**

**Extra Tossups**

21 **This document quotes Psalm 19:9 in stating “the judgments of the Lord are true and righteous altogether”. Another part says that it may seem odd that men would pray to God to help in “wringing their bread from the sweat of other men’s face” but concludes “let us judge not, that we be not judged”. Its opening paragraph makes clear that there is little need for a prolonged speech; its third paragraph states that the lord brings “woe unto the world because of offenses”, adding that slavery is one of those offenses. This speech promised “with** malice toward none, with charity for all”. For 10 points, name this speech delivered by a newly re-elected president on March 4th, 1865.

ANSWER: **Lincoln’s Second Inaugural Address** (accept equivalents, prompt on answers of the form “Lincoln’s Inaugural Address” or anything that don’t specifically mentioned that it was delivered by Lincoln and that it was his second inaugural address).

22 **A man is unable to sleep in Alexander’s house in this man’s short story “Hamlet of the Shchigrovsky District”. In one work by him, Vladimir learns that the object of his affections, Zinaida, is his father’s mistress. Varvara’s affairs prompt Fyodor to fall for Liza in his novel *Home of the Gentry*, and this author of *First Love* wrote about Elena’s love for Insarov in** *On the Eve*. This author of the short story collection *A Sportsman’s Sketches* is most famous for a novel about Arkady Kirsanov and his mentor, the nihilist Bazarov. For ten points, name this Russian author of *Fathers and Sons*.

ANSWER: Ivan **Turgenev**

23 **Ringwoodite, wadsleyite and ferropericlase are all found in this structure. Scientists believe that a high pressure form of magnesium silicate called post perovskite exists in part of this structure, which contains an outer region home to the asthenosphere and lithosphere. The lower layer of this region, sometimes referred to as the D double prime layer, contains an area called the** Gutenberg discontinuity while the top part of this region is called the Moho discontinuity. An ejection of hot rocks from this region is known as its namesake “plume”. For 10 points, name this middle layer of the Earth that is between the crust and the core.

ANSWER: **mantle** (do not accept “inner mantle” or “outer mantle”, the first clue is about minerals found in different parts of the mantle)

1 Colonel Killigrew and Mr. Medbourne are characters in this work, which was published in *Twice Told Tales.* For 10 points each:

[10] Name this short story in which four subjects drink a potion extracted from the Fountain of Youth

ANSWER: “**Dr. Heidegger’s Experiment**”

[10] “Dr. Heidegger’s Experiment” was a work by this author who wrote of man’s visit to a forest to witness a demonic ritual in “Young Goodman Brown”.

ANSWER: Nathaniel **Hawthorne**

[10] A commotion is caused by the title object worn by Reverend Hooper in this other Hawthorne work.

ANSWER: “The **Minister’s Black Veil**”

2 This man is sometimes referred to as “The Hero of Two Worlds” for his work in South American and Europe. For 10 points each:

[10] Name this Italian revolutionary figure and head of the Redshirts.

ANSWER: Giuseppe **Garibaldi**

[10] While a youth, Garibaldi joined this revolutionary organization extremely popular in Italy. This group had a name meaning “charcoal burners” and eventually joined with Mazzini’s Young Italy movement.

ANSWER: **Carbonari**

[10] Garibaldi led this 1860-1861 military campaign that led to the collapse of the Kingdom of the Sicilies and was a key step in Italian unification.

ANSWER: **Expedition of a Thousand** or **Spedizione dei Mille**

3 The heat divided by the mass times the change in temperature is equal to this quantity. For 10 points each:

[10] Name this quantity, the amount of heat needed to raise one gram of a substance by one degree Celsius.

ANSWER: **specific heat** capacity or specific **heat capacity**

[10] The Debye model for specific heat describes the contribution made by these quasiparticles, the energy of the lattice vibrations in a solid.

ANSWER: **phonon**

[10] Both the Debye and Einstein model of specific heat are used with the Dulong-Petit law which states that at high temperature the specific heat capacity of a crystal structure is equal to the gas constant divided by the molar mass times this number.

ANSWER: **three**

4 One legend about this work was written by Giuseppe Baini in his 1828 biography on the work’s composer. For 10 points each:

[10] Name this work which according to legend saved a certain style of music from being banned at the Council of Trent.

ANSWER: ***Pope Marcellus Mass*** or ***Missa Papae Marcelli***

[10] The *Pope Marcellus Mass* was a work by this Italian Renaissance composer.

ANSWER: Giovanni Pierluigi da **Palestrina**

[10] According to legend, the work was responsible for saving this type of music in the Catholic Church. This type of music is characterized by two or more tones.

ANSWER: **polyphony** or **polyphonic** music

5 One character on this show lives with his brother Mose on a beet farm. For 10 points each:

[10] Name this NBC comedy about a paper company in Scranton, Pennsylvania.

ANSWER: *The* ***Office***

[10] This head of accounting has an affair with Dwight and is later engaged to Andy. The engagement is called off after Andy finds out about the affair.

ANSWER: **Angela** Martin

[10] Recently, the new secretary Erin has begun dating this man following her relationship with Andy. He works as a regional coordinator for Sabre.

ANSWER: **Gabe** Lewis

6 The business cycle theory developed by this school claims that they are caused in part by low interest rates which lead to increased bank borrowing, leading to a temporary boom which eventually collapses. For 10 points each:

[10] Name this school of economics whose founders include Ludwig von Mises and Carl Menger.

ANSWER: **Austrian** school of economics.

[10] The aforementioned business cycle theory was developed by Menger and this man who compared socialism and fascism in *The Road to Serfdom*.

ANSWER: Friedrich von **Hayek**

[10] Among the most ardent critics of the Austrian Business Cycle Theory is this American economist and New York Times columnist who explored American income inequality in *The Conscience of a Liberal*.

ANSWER: Paul **Krugman**

7 The development of all 1,031 cells in the adult male of this transparent species has been mapped out. For 10 points each:

[10] Name this nematode extensively used as a model organism.

ANSWER: ***C****aenorhabditis* ***elegans***

[10] *C. elegans* is widely used to study this process of programmed cell death, regulated by the Bcl-2 class of proteins.

ANSWER: **apoptosis** (the second p is sometimes silent)

[10] *C. elegans* also used to study this process which controls the activity of genes. This process carried out by miRNA and siRNA is moderated by the enzyme Dicer and controlled by the RNA-induced silencing complex.

ANSWER: **RNA interference** or **RNAi** (prompt on “interference”)

8 Answer these questions about German politics following World War Two, for 10 points each.

[10] This man served as chancellor of West Germany from 1969-1974, where he developed the policy of Ostpolitik in dealing with East Germany.

ANSWER: Willy **Brandt**

[10] East Germany on the other hand was terrorized by this secret police force that allegedly murdered numerous people attempting to climb the Berlin Wall.

ANSWER: **Stasi** (accept **Staatssicherheit** prompt on “Ministry for State Security”)

[10] This man was the first chancellor of West Germany and brought his country into NATO in 1955.

ANSWER: Konrad **Adenauer**

9 This group had to be purified for the murder of Aspyrtus, as the Greek deities looked down on fratricide.

[10] Identify this group whose notable members included Heracles, Telamon, and Peleus.

ANSWER: **Argonauts** (accept **Minyans**)

[10] This son of Aeson led the Argonauts in his attempt to find the Golden Fleece

ANSWER: **Jason**

[10] Also among Jason’s crew were the Boreads, Cailas and Zetes, who helped drive away these winged monsters that were targeting Phineus and ruining his food.

ANSWER: **Harpies** (prompt on “robbers”)

10 This man released an autobiography in 2008 called *Stepping Stones*. For ten points each:

[10] Identify this Irish Nobel Laureate who authored a translation of Beowulf and wrote a poem that includes the line “Between my finger and my thumb/ The squat pen rests”. That poem is “Digging”.

ANSWER: Seamus **Heaney**

[10] Heaney wrote “Digging”, in this poetry collection that includes “Mid-Term Break”. In the title poem of this collection, a boy describes watching frogspawn transform into frogs.

ANSWER: ***Death of a Naturalist***

[10] Heaney translated “Arion”, a work by this Russian who authored *The Captain’s Daughter.*

ANSWER: Alexander **Pushkin**

11 This work was removed from the 1920 Salon de Independants on grounds of obscenity. For 10 points each:

[10] Name this work that was revealed to be Marie Bonaparte, which when viewed from the left front shows two breasts attached to a phallic symbol.

ANSWER: ***Princess X***

[10] This other work by the sculptor of *Princess X* is a war memorial in Targu Jiu composed of 17 rhombus like structures.

ANSWER: *The* ***Endless Column***

[10] Both *Princess X* and *The Endless Column* were works by this Romanian sculptor known for his series of sculptures titled *Bird in Space*.

ANSWER: Constantin **Brancusi**

12 This early advocate of human rights was sent as young man to quell an uprising in Taxshila. For 10 points each:

[10] Name this Indian ruler, the grandson of Chandragupta.

ANSWER: **Ashoka** the Great

[10] Ashoka was a ruler in this Indian dynasty, formed in 322 BC following the toppling of the Nanda Dynasty.

ANSWER: **Mauryan** Empire/Dynasty

[10] One of the achievements of Ashoka was conquering this region in central-eastern India. Kharavela was a later king from this region.

ANSWER: **Kalinga**

13 Answer these questions about black holes, for 10 points each.

[10] This term describes the region around the black hole at which gravitational forces becomes so strong that nothing can escape the pull of the black hole.

ANSWER: **event horizon**

[10] Sagittarius A, long suspected to be a massive black hole, is found at the center of this member of the Local Group.

ANSWER: **Milky Way** galaxy

[10] This theorem states that since the since the event horizon hides most information about a black hole to an outside observers, all black holes solutions to the Einstein-Maxwell equations are described only by mass, electrical charge and angular momentum.

ANSWER: **No-hair** theorem

14 This philosophy wrote about how a government can remain neutral among competing principles in *Political Liberalism*. For 10 points each:

[10] Name this philosopher who devised an impartial system of judgment he termed the “veil of ignorance”.

ANSWER: John **Rawls**

[10] The “veil of ignorance” was presented in this Rawls work which devised the liberty principle and the difference principle.

ANSWER: *A* ***Theory of Justice***

[10] *A Theory of Justice* was opposed by this Robert Nozick work. In it, he uses an example of fans paying money to watch Wilt Chamberlain to describe a just distribution that is incompatible with liberty.

ANSWER: ***Anarchy, State, and Utopia***

15 One of this man’s novels describes the lives of the elderly sisters Luci and Nidia in Rio de Janeiro. For ten points each:

[10] Name this author of *Tropical Night Falling* who wrote a book that begins with the death of Juan Carlos Etchepare, *Heartbreak Tango*.

ANSWER: Manuel **Puig**

[10] Manuel Puig is from this South American nation whose other authors include Domingo Sarmiento and Ernesto Sabato. It is, unsurprisingly, the setting of his novel *The Buenos Aires Affair*.

ANSWER: **Argentina**

[10] In this Puig novel, Luis Molina and Valentín Arregui become lovers in a prison in Buenos Aires, although Valentín actually loves Marta.

ANSWER: *The* ***Kiss of the Spider Woman***

16 In 1959, a series of canals opened up in this river after a project funded by the Eisenhower administration. For 10 points each:

[10] Name this river that originates in Lake Ontario before passing through Montreal and Quebec City.

ANSWER: **St. Lawrence** River

[10] The St. Lawrence Waterway was among the factors that led to the decline of the Erie Canal, a waterway that originally passed through this third most populous city in New York behind New York City and Buffalo. To this day Eastman Kodak is headquartered in this city.

ANSWER: **Rochester**

[10] At the outlet of the St. Lawrence in the Gulf of St. Lawrence, one can find this large but sparsely populated island. Port-Menier is the main village of this island located in the eastern Quebec region of Cote-Nord.

ANSWER: **Anticosti** Island

17 During Bill Clinton’s first term, Republicans took back Congress in the so called “Republican Revolution”. For 10 points each:

[10] The election led to this Georgia Congressman serving as Speaker of the House from 1995 to 1999. He has been speculated as a possible GOP candidate for the 2012 presidential election.

ANSWER: Newt **Gingrich**

[10] Gingrich was one of the author’s of this Republican platform document during the 1994 campaign. It included the American Dream Restoration Act and an act that would have imposed 12 year limits on all members of Congress.

ANSWER: **Contract with America**

[10] Another author of the Contract with America was this Texas Congressman and House Majority Leader from 1995 to 2003. He currently chairs the group FreedomWorks.

ANSWER: Richard “Dick” **Armey**

18 The central character of this play often turns to Pastor Manders for advice. For ten points each:

[10] Identify this Henrik Ibsen play in which Helene Alving discovers Osvald’s syphilis and learns of his love for half-sister Regina Engstrand.

ANSWER: ***Ghosts***

[10] Ibsen’s response to public opposition of *Ghosts* was this play, in which a newspaper run by Hovstad and Aslaksen publishes Dr. Thomas Stockmann’s letter about contamination in the town baths.

ANSWER: ***An Enemy of the People***

[10] Ibsen is more famous for this play in which the title female shoots herself with a pistol after Judge Brack learns of its origins. That title character also urges Løvborg to commit suicide.

ANSWER: ***Hedda Gabler***

19 Butane is the smallest alkane to exhibit this property. For 10 points each:

[10] Name this terms that describes two compounds with the same chemical formula but different structures.

ANSWER: **isomer** (or **isomer**ism)

[10] This term describes stereoisomers that are mirror images of each other. They rotate plane polarized light in opposite directions.

ANSWER: **enantiomer**

[10] This term describes a mixture of two corresponding enantiomers. Since there are equal amounts of each enantiomer, this mixture is optically inactive.

ANSWER: **racemate** or **racemic** mixture

20 A small man holds a scroll in the lower right of this painting. For 10 points each:

[10] Name this Mannerist work that shows the Virgin Mary holding a rather large version of Christ in her lap.

ANSWER: ***Madonna with the Long Neck***

[10] *Madonna with the Long Neck* was a work by this Italian artist of *The Vision of St. Jerome* and *Self-portrait in a Convex Mirror*.

ANSWER: **Parmigianino** or Girolamo Francesco Maria **Mazzola**

[10] This Italian of the early 20th century is known for works like *Madame Pompadour* and his collection of works that show women with elongated necks.

ANSWER: Amedeo **Modigliani**

**Tiebreaker Bonus**

21 Pierre Langlais and Christian de Castries were both taken as prisoners after this battle. For 10 points each:

[10] Name this 1954 battle near modern day Vietnam’s border with Laos which effectively ended French rule in Indochina.

ANSWER: Battle of **Dien Bien Phu**

[10] The battle led to this 1954 peace conference which eventually split Vietnam into a communist north and American backed south.

ANSWER: **Geneva** Accords/Conference

[10] Viet Minh forces during the battle were led by this man, who later commanded the People’s Army of Vietnam during the Vietnam War.

ANSWER: Vo Nguyen **Giap**