**Richard Montgomery-Beavercreek Collaborative Tournament**

Questions written by Richard Montgomery (MD) and Beavercreek (OH)

Edited by Joe Czupryn and Ellen Spence

**Packet 3 – Tossups**

1. **An iconoclastic response to this poem by Anthony Hecht mocks “that bitter allusion to the sea.” This poem references a metaphor that describes the sea “like the folds of a bright girdle furled” and its “long, withdrawing roar.” Mention is made in this poem to (\*)** Sophocles who heard the “turbid ebb and flow of human misery” on the Aegean. Concluding with the line that the title location is where “ignorant armies clash by night,” for 10 points, name this poem by Matthew Arnold describing the cliffs of England.

ANSWER: “**Dover Beach**”

2. **One woman of this name wrote the popular devotional *Prayers or Meditations*, the first book to be published by an English queen under her own name. Another woman of this name had a rivalry with Diane de Poitiers but eventually won out after becoming regent to Charles (\*)** IX. A more famous ruler of this name partitioned Poland with Frederick the Great and corresponded with Diderot and Voltaire. For 10 points, identify this name shared by three wives of Henry VII, a long-reigning queen of France, and a “Great” Empress of Russia.

ANSWER: **Catherine**

3. **It is not Peru or Costa Rica, but this country’s city of Punta Arenas became a penal colony after the Mutiny of Cambiazo. Today, this nation is a popular destination for tourists visiting Torres del Paine National Park. Alexander** **Selkirk was mutinied on this country’s Juan Fernandez Islands, and the Polanco Lift serves this country’s second largest city of** (\*) Valparaiso. In 1960, President Jorge Alessandri led relief efforts when this country was hit by the most powerful earthquake ever recorded. For 10 points, name this country on the Pacific coast of South America with capital at Santiago.

ANSWER: **Chile**

4. **In Fischer Esterification, toluene acts as one of these substances, and salts in the liquid state are known as the “future” of these substances. Two methyl groups surround a central sulfur atom in one type of these substances known as** (\*) DMSO. Higher dielectric constants and the ability to participate in hydrogen bonding are characteristics typical of protic types of these substances. Aqueous solutions are solutions in which water acts as this substance. For 10 points, name this type of substance in which solutes are dissolved.

ANSWER: **Solvent**s

5. **One of this composer’s orchestral works opens with a timpani roll and harps alternating between F-sharp and G-sharp. Carl Czerny inspired this composer to write his book of *Preludes* which includes “The Sunken Cathedral.” *Doctor Gradus ad Parnassum* and (\*)** *Golliwog’s Cakewalk* make up this composer’s *Children’s Corner* suite. This composer’s most famous piece is a part of his *Suite Bergamasque* and is based off of a Paul Verlaine poem. For 10 points, name this French impressionist composer of *La Mer* and *Claire de Lune*.

ANSWER:Claude **Debussy**

6. **This man’s birth was foretold to his grandfather by an angelic messenger from Allah. This man’s son, Yusuf, became the next prophet from the line of Ibrahim after a dream in which he saw the sun, moon, and eleven stars bowing before him. That son was born to this man by** (\*) Rachel, his second wife, whom he labored for seven years in order to marry. This man travelled to Egypt to avoid a famine after discovering that his son was still alive. The twelve sons of this man began twelve tribes that bore their names, including those of Benjamin and Judah. For 10 points, name this brother of Esau, son of Isaac, and father of Joseph.

ANSWER: **Jacob** [accept **Israel** or **Yaʿqūb**]

7. **One painting by this artist depicts a servant on the right mourning for a figure being carried on the left behind a statue. Another work by this artist was originally planned to have the title figure crowning himself, but instead shows that man crowning a kneeling woman in front of him. Besides painting *The* (\*)** *Lictors Bring to Brutus the Bodies of His Sons* and *The Coronation of Napoleon*, this artist also painted a work in which the title figure has a chronic skin disease and must remain in a bathtub where he is shown assassinated. For 10 points, name this French artist of *The Death of Marat.*

ANSWER: Jacques-Louis **David**

8. **A dog named Barrabas dies during an engagement party in this novel. The King of the Pressure Cookers is a suitor in this novel, in which he is disliked because of his Jewish appearance. This novel sees a suffragette and mother of fifteen children die by being decapitated in a car crash. (\*)** That woman is Nivea del Valle, the mother of a character who is engaged to Esteban Trueba before she dies by accidental poisoning. For 10 points, name this Spanish language novel about the Trueba family, written by Isabel Allende.

ANSWER:*The* ***House of the Spirits*** [accept *La* ***Casa de los Espíritus***]

9. **The quantum type of this quantity is named for Klaus von Klitzing, and it is applied in the quantum Hall effect. This quantity varies with temperature because of the Kondo effect, and at low temperature many materials see a drop in it according to the Anderson Model. This quantity’s inverse is measured in Siemens. After the turn on voltage,** (\*) this quantity is zero in an ideal diode. The component named for this quantity denotes its value through the use of colored bands. This quantity is added to reactance to yield impedance. For 10 points, name this opposition to the flow of current, equal to voltage divided by current according to Ohm’s law.

ANSWER: Electrical **resistance**

10. **This empire’s military was solely composed of men of the *horon* class, and it was governed by the Gbara legislature. This empire was created after its founder won the Battle of Kirina against Sumanguru. That king was notably born a cripple and was (\*)** Sundiata Keita. The most famous ruler of this empire built the Sankore University and markedly inflated gold prices while on the *hajj*. For 10 points, name this West African empire that was ruled by Mansa Musa during its golden age.

ANSWER: **Mali** Empire

11. **The mysterious Imiut fetish symbolizes this god. Strangely absent from major myths, he has nonetheless been depicted conquering the “nine bows.” The opening of the mouth ceremony was performed by priests wearing a mask of this god. This (**\***)** psychopomp is assisted by the monster Ammit as he weighs the hearts of the dead against the feather of Ma’at. The flail is used to symbolize, for 10 points, what jackal-headed Egyptian god of mummification?

ANSWER: **Anubis**

12. **News reporter James R. Kilpatrick was harassed by employees of this company. Harry Bennett was an ex-Navy sailor who worked for this company. Walter Reuther fought against this company’s security guards during Battle of the Overpass at the River Rouge Plant. This company sold the failed** (\*) Edsel, which came to refer to any commercial failure. This company, one owner of which authored *The International Jew*, sold a product “that could be painted any color as long as it was black.” For 10 points, name this company founded by its namesake, the seller of the Model T.

ANSWER: **Ford** Motor Company

13. **One work by this man features the mysterious land of Tauris, where the title character ritually executes those who land on its shores. That title character survived an ordeal in another work by this author where she is sacrificed at Aulis. This author wrote about that character,** (\*) Iphigenia, discovering that two recent visitors were in fact her brother Orestes and his friend Pylades and about her escaping the island with them. Other famous plays by this man include *Medea*, *The Bacchae*, and *The Trojan Women*. For 10 points, name this last of the three great tragedians of Ancient Greece.

ANSWER: **Euripides**

14. **This movie features a character whose father made his fortune from the invention of toaster strudel. This film is based on a book by Rosalind Wiseman, *Queen Bees and Wannabes*, and was produced by** (\*) Tina Fey, who also appears in it as a math teacher and purported drug pusher. That allegation appears in Regina George’s burn book in this film. For 10 points,name this 2004 film, starring Lindsay Lohan, in which the limit does not exist, and fetch isn’t going to happen.

ANSWER: ***Mean Girls***

15. **Though not dimension, Hausdorff names a version of this quantity that takes two subsets as its inputs. Dynamic programming can be used to implement a version of this quantity that is named for Levenshtein. The Manhattan or (\*)** taxicab version of this quantity is defined using absolute values and for rational inputs, can only take on rational values. Pythagoras created a theorem which defines the Euclidean version of this concept. For 10 points, name this quantity that has a namesake formula written as the square root of x1 minus x2 squared plus y1 minus y2 squared and is defined as how far apart two points are in space.

ANSWER: **Distance** [accept **Metric**]

16. **This poem was written about the author’s young wife, Virginia Clemm, and says that the title character was born away by her “highborn kinsmen” and died because “The angels, not half so happy in Heaven/ Went envying her and me.” (\*)** The title character of this poem is described by the speaker as “My life and my bride”and is said to have “lived with no other thought / than to love and be loved” by the speaker, who describes her as being laid to rest in a “tomb by the sounding sea.” For 10 points, name this posthumously published poem by Edgar Allan Poe.

ANSWER:“**Annabel Lee**”

17. **One notable anecdote from this philosopher involves being asked by a young man whether he ought to abandon his mother to fight for freedom, to which he notes that any answer derived from Christian or Kantian ethics would be inauthentic. He also stated that “man first of all** (\*) exists… and defines himself afterwards.” Strangely enough, he defended orthodox Marxism despite his extreme individualism and in doing so, lost the goodwill of Albert Camus. For 10 points, name this author of *Being and Nothingness*, who articulated the idea of “bad faith” and wrote *No Exit*.

ANSWER: Jean-Paul **Sartre**

18. **Cancer affecting this organ is often called painless jaundice. This organ’s epsilon cells secrete ghrelin, while its delta cells secrete somatostatin. A disease of this organ that leads to its gradual destruction can cause (\*)** diabetes mellitus. This gland releases enzymes through the Duct of Wirsung that exits at the duodenum, and it contains endocrine cells called the Islets of Langerhans, which release hormones including glucagon. For 10 points, name this organ that regulates blood sugar levels by releasing insulin.

ANSWER: **Pancreas**

19. **Thomas Jefferson likened the debate over this law to a “fire bell ringing in the night.” The Tallmadge Amendment was a proposed addition to this law that would free slaves when they were twenty-five years old. This law was repealed by** (\*) Roger Taney’s ruling in the Dred Scott case because this law had originally specified that states formed above the 36’30° [thirty-six thirty] parallel would be “free” states. For 10 points, name this 1820 compromise that allowed entry of the namesake state into the Union, along with Maine.

ANSWER: **Missouri** Compromise [accept **1820 Compromise** before mentioned]

20. **One work by this composer includes a song with the lyrics “Come join us in singing the praises of Zion” and another song with the lyrics “My cat goes fiddle EYE FEE.” That work is this composer’s *Old American Songs.* Another piece by this composer begins with a movement titled “(\*)** Buckaroo Holiday”;that piece is a ballet called *Rodeo* [ROAD-Ay-Oh]. Martha Graham commissioned this composer to write another ballet that includes the Shaker hymn “Simple Gifts.” For 10 points, name this composer of *Fanfare for the Common Man* and *Appalachian Spring.*

ANSWER: Aaron **Copland**

*Tiebreaker*

21. **A man in this work argues that jaguars have no feelings. That same man attempts to retrieve his pipe when it falls into the ocean, instead falling in along with it and finding himself marooned on (\*)** Ship-Trap Island. The Cossack Ivan is killed by a knife strapped to a sapling in this work while chasing the main character. For 10 points, name this story by Richard Connell in which General Zaroff hunts Sanger Rainsford for sport.

ANSWER: “The **Most Dangerous Game**”

**Packet 3 – Bonuses**

1. This man discussed wars launched by Democratic presidents in a vice-presidential debate with Walter Mondale. For 10 points each:

[10] Name this Kansas Republican and World War II veteran. He would later serve as Senate Majority Leader and suffer defeat at the hands of Bill Clinton in the 1996 election.

ANSWER: Robert “Bob” **Dole**

[10] Dole was the Vice-Presidential nominee in this year, America’s bicentennial. He shared the GOP ticket with Gerald Ford that faced off against the eventual winner, Jimmy Carter.

ANSWER: **1976** [prompt on “76”]

[10] Dole’s wife, Elizabeth, would later serve as Senator from this southern state. She served alongside future Democratic Vice-Presidential nominee John Edwards and succeeded the controversial Jesse Helms.

ANSWER: **North Carolina**

2. One character in this novel plays Strip Botticelli. For 10 points each:

[10] Name this novel about Oedipa Maas’ investigations into the Californian underground. This novel ends with Oedipa purchasing a series of stamps that people from Trystero are also trying to obtain.

ANSWER: *The* ***Crying of Lot 49***

[10] *The Crying of Lot 49* was written by this author who also wrote *V* and *Inherent Vice*.

ANSWER: Thomas **Pynchon**

[10] This other Pynchon novel ends with the landing of a V-2 rocket and focuses on Tyrone Slothrop.

ANSWER: ***Gravity’s Rainbow***

3. For 10 points each, answer these questions about musical instruments.

[10] This wind instrument uses enclosed reeds fed from a constant reservoir. Although this instrument has varieties such as “Gaita de boto” and “biniou,” its best-known variant is the “Great Highland” variety associated with Scotland.

ANSWER: **Bagpipe**

[10] This plucked stringed instrument can have 18, 19, 20, or 21 strings and is very similar in appearance to the tanpura. One notable use of this Indian instrument is in the introduction to the Rolling Stones’ song “Paint it Black.”

ANSWER: **Sitar**

[10] Although commonly found in orchestras now, versions of this instrument have been found in Asia and Africa since 3500 BC. Coming in “open” and “frame” varieties, these instruments typically have seven pedals and forty-seven strings.

ANSWER: **Harp**

4. For 10 points each, answer these questions about mental illnesses.

[10] Like bipolar disorder, this disorder can be treated with lithium. It is characterized by abnormal social behavior and the failure to comprehend reality. This disorder is also often confused with “multiple personality disorder.”

ANSWER: **Schizophrenia**

[10] This type of disorder has “social,” “separation,” and “agoraphobia panic” subcategories. Feelings associated with this disorder include faster heart rates and shakiness. Sufferers of this disorder experience worry about future events.

ANSWER: **Anxiety** disorder [do NOT accept “nervousness”]

[10] This eating disorder is characterized by binge eating followed by purging, or induced vomiting. The diagnosis of anorexia nervosa takes precedence over this disorder.

ANSWER: **Bulimia** nervosa

5. Receptors on these cells are diversified through the enzyme recombinase, which links V and J gene segments together to code for light chains. For 10 points each:

[10] Name these lymphocytes that develop in the bone marrow and are activated in the humoral immune response. They are contrasted with T cells.

ANSWER: **B** cells [accept **B** lymphocytes]

[10] In the humoral immune response, effector B cells secrete these Y-shaped proteins that recognize antigens on pathogens.

ANSWER: **Antibodie**s [accept **Immunoglobulin**s]

[10] Antibodies prime this action in opsonization. In this process, cells engulf material, and it has a name meaning “cellular eating.”

ANSWER: **Phagocytosis**

6. For 10 points each, name these foods that play a role in Hindu mythology and religion.

[10] The god Vishnu adopts the form of a gigantic turtle named Kurma to churn an ocean of this white liquid.

ANSWER: **Milk**

[10] The Vedas call upon Agni, the god of fire, to punish those who mistreat cows. As a result, many practicing Hindus abstain from eating this bovine meat product.

ANSWER: **Beef**

[10] Krishna, an incarnation of Vishnu, is known for stealing and eating this solid, fatty dairy product from his mother Yashoda during his childhood.

ANSWER: **Ghee** [accept **Butter**]

7. The “Cornhusker kickback” was proposed to ensure Ben Nelson’s vote for this law. For 10 points each:

[10] Name this controversial 2010 law. Commonly named for the forty-fourth president, it included the individual and employer mandates and has been tricky for Republicans to repeal and replace in 2017.

ANSWER: Patient Protection and **A**ffordable **C**are **A**ct [accept **Obamacare**]

[10] The aforementioned “kickback” would have covered the cost of expanding this program in Nebraska. This program was implemented as part of the “Great Society” in 1965 to cover low-income Americans.

ANSWER: **Medicaid**

[10] An obstacle to the repeal and replace of Obamacare has been resistance from this group. This group of very conservative and libertarian lawmakers, including Jim Jordan, complained that initial plans amounted to “Obamacare-lite.”

ANSWER: House **Freedom Caucus**

8. Converting to Shia Islam under the rule of Humayun, the Mughal Empire may have been the greatest Shia state of all time. For 10 points each:

[10] Name this “great” Mughal emperor who reigned over half a century of peace, fostered by his commitment to religious tolerance and respect for the priestly Brahmin class by creating the syncretic religion of Din-i-Ilahi.

ANSWER: Abu'l-Fath Jalal-ud-din Muhammad **Akbar**

[10] A perpetual thorn in the side of Mughal expansion were these Hindu kingdoms that dominated northern India. Akbar personally organized the marriage of seventeen princes to subdue them.

ANSWER: **Rajput**s

[10] Interestingly, most Rajput clans seem to not follow this practice of not eating animals that is common to India for religious reasons. Many westerners also do this for ethical reasons.

ANSWER: **Vegetarian**ism

9. Answer these questions about the novel *Things Fall Apart*, for 10 points each.

[10] This Nigerian author of *Things Fall Apart* also wrote *No Longer At Ease* and *Arrow of God*. Hehas been applauded for his documentation of the effects of European colonization on Africa.

ANSWER: Chinua **Achebe**

[10] This main character of *Things Fall Apart* is a wrestling champion who is exiled after disturbing the Week of Peace. He commits suicide at the novel’s end.

ANSWER: **Okonkwo**

[10] This character from *Things Fall Apart* is beaten by his father Okonkwo for being too much like Unoka. This character later converts to Christianity.

ANSWER: **Nwoye** [accept **Isaac**]

10. The namesake of these laws also developed a series of laws describing spectroscopy. For 10 points each:

[10] Name these two laws which describe circuit rules. The first states that the sum of the current going into the circuit must equal the sum of the current coming out, and the second states that the net voltage chain when going in a loop in a circuit must be zero.

ANSWER: **Kirchoff**’s Laws of Circuitry

[10] In a circuit, the charge a capacitor is able to hold is proportional to the electric field until it reaches this voltage. For a diode, this is the minimum amount of voltage needed to cause current to flow in the opposite direction.

ANSWER: **Breakdown** Voltage

[10] Kirchhoff studied spectroscopy with this other scientist who notably developed his namesake burner that is often used in high school chemistry labs.

ANSWER: Robert **Bunsen**

11. This man ordered the construction of the University of Tartu in present-day Estonia. For 10 points each:

[10] Name this “Lion of the North” who ruled Sweden during the early 1600’s. Axel Oxenstierna assisted this man during many of his military campaigns.

ANSWER: **Gustavus Adolphus** the Great [accept **Gustav II** Adolf; prompt on partial answer]

[10] Gustavus Adolphus fought alongside the Protestants during this conflict. This conflict was sparked when two Catholic regents were thrown out of a window in the Second Defenestration of Prague.  
ANSWER: **Thirty Years’** War

[10] Gustavus Adolphus died while leading a cavalry charge during this battle. After his death, Bernard of Saxe-Weimar took over and won the battle for the Protestants.

ANSWER: Battle of **Lutzen**

12. The Eastern Orthodox Church is the second-largest Christian Church. For 10 points each:

[10] Name the official language of the Byzantine Empire that saints Cyril and Methodius drew upon to create the Cyrillic alphabet.

ANSWER: **Greek**

[10] As a result of their missionary efforts, the largest number of Eastern Orthodox adherents live in this modern-day country whose church is headed by the Patriarch of Moscow.

ANSWER: **Russia**

[10] Unlike in the Catholic Church, national Orthodox churches do not answer to any central authority. They are therefore denoted by this term, Greek for “self-headed,” not to be confused with autonomous.

ANSWER: **Autocephalous**

13. For 10 points each, answer these questions about the structure of molecules.

[10] This model, also named the Gillespie-Nyholm theory, is used to predict the geometry of individual molecules based on the number of electron pairs surrounding the central atoms. It includes geometries such as bent and trigonal planar.

ANSWER: **Valence shell electron pair repulsion** [or **VSEPR** pronounced “Ves-pur” or “Vuh-seh-pur,” be generous on pronunciation]

[10] A central atom’s steric number is the sum of the number of atoms bonded to that central atom and the number of these structures, which are formed by nonbonding valence electrons.

ANSWER: **Lone pair**s

[10] If a molecule’s central atom has four bonding pairs and no lone pairs, then it must have this predicted geometry.

ANSWER: **Tetrahedral**

14. This artist designed the sets for Leonid Massine’s ballet *Aleko* and Maurice Ravel’s ballet *Daphnis and Chloe*. For 10 points each:

[10] Name this artist. In *The White Crucifixion*, he showed a Lithuanian house burning and a beggar holding a sack on the right, while a menorah burns below the title scene.

ANSWER: Marc **Chagall**

[10] Chagall depicted his hometown of Vitebsk, Belarus, in this semi-Cubist work. A man holds a scythe while an upside-down violinist plays in front of the town in it.

ANSWER: ***I and the Village***

[10] This object can be seen in the window in Chagall’s *Self-Portrait with Seven Fingers*. A famous photograph of Hitler shows him standing in front of this French landmark.

ANSWER: **Eiffel Tower**

15. For 10 points each, name these Shakespeare plays.

[10] This play centers on two star-crossed lovers from Verona, and the events in it are driven by the family feud between the Capulets and the Montagues.

ANSWER: ***Romeo and Juliet***

[10] Critics debate the misogyny in this Shakespeare play because it revolves around Petruchio’s efforts to force his willful wife Katherina into submission by depriving her of food and water.

ANSWER: *The* ***Taming of the Shrew***

[10] Lady Olivia’s rejection of Sir Andrew Aguecheek prompts him to challenge the crossdressing protagonist of this play to a duel; that same protagonist eventually marries Duke Orsino.

ANSWER: ***Twelfth Night***

16. The Sharpeville Massacre and the Soweto Riots occurred in protest of this policy. For 10 points each:

[10] Name this policy of forced segregation in South Africa. The “Pass Laws” created along with it restricted the movement of various indigenous peoples of South Africa.

ANSWER: **Apartheid**

[10] Apartheid originally established two classes of people based on whether they spoke English or this language. This language was spoken by the Boers who had first settled South Africa.

ANSWER: **Afrikaans**

[10] This last Boer president of South Africa ended Apartheid after the resignation of his predecessor P.W. Botha. He shared the 1993 Nobel Peace Prize with Nelson Mandela.

ANSWER: Frederik Willem **de Klerk**

17. One tributary of this river, the Virgin River, runs through Zion National Park. For 10 points each:

[10] Name this river which flows through much of the American Southwest before it empties into the Gulf of California. The actual London Bridge now crosses this river in Lake Havasu City.

ANSWER: **Colorado** River

[10] The Colorado River flows through this national park in Arizona. This national park, which was mapped by John Wesley Powell, is home to the Kaibab squirrel and California condor.

ANSWER: **Grand Canyon** National Park

[10] This artificial lake was formed when the Hoover Dam dammed the Colorado River. It provides fresh water to Las Vegas, and it was named after the then Director of the Bureau of Reclamation.

ANSWER: Lake **Mead**

18. This work was dedicated to Frederick the Great, who provided the theme on which it was based. For 10 points each:

[10] Name this collection of musical works that includes several canons and ends with a trio sonata.

ANSWER: *The* ***Musical Offering***

[10] The trio sonata features this instrument, which also introduces Debussy’s *Prelude to the Afternoon of a Faun* and has a miniature version called the piccolo.

ANSWER: **Flute**

[10] *The Musical Offering* was written by this Baroque composer of *The Well-Tempered Clavier* and the *Brandenburg Concertos*.

ANSWER: Johann Sebastian **Bach**

19. The x-axis of this diagram has different classes such as O, A, and B. For 10 points each:

[10] Name this diagram which plots luminosity versus temperature of different stars. Named for two scientists, it can be used to depict the stellar evolution of a star.

ANSWER: **H**ertzsprung-**R**ussell Diagram

[10] The HR-diagram features an instability strip which features these types of stars. These stars pulsate, and the Cepheid variety was discovered by Henrietta Swan Leavitt.

ANSWER: **Variable** Stars

[10] These stars are on the bottom right of the HR-diagram because of their low temperature and brightness. Their mass is typically expressed in terms of Jupiter masses, and they are too small to undergo stellar fusion.

ANSWER: **Brown dwarf**s [prompt on partial answer]

20. For 10 points each, name these literary works that discuss war.

[10] Composed of thirteen chapters that discuss individual aspects of warfare, this treatise by Sun Tzu is still used today to formulate military, business, and legal strategies.

ANSWER: The ***Art of War***

[10] Kantorek persuades his students to enlist as German soldiers in this Erica Maria Remarque novel about fighting in the trenches during World War I.

ANSWER: ***All Quiet on the Western Front***

[10] In this short story about the Civil War, the rope around Peyton Farquhar's neck breaks and drops him from the bridge into the creek.

ANSWER: “An **Occurrence at Owl Creek Bridge**”