**GSAC XXIII**

Head Edited by Will Overman, written by members of Maggie Walker Quizbowl

**Packet 11**

1. **The Gikondo Massacre occurred at a Pallottine church during this event. One group during this conflict created a racially-based Ten Commandments. The Interahamwe carried out that massacre during this event, which began a few months after the signing of the (\*)** Arusha Accords. The shooting down of a plane carrying the Burundian president and Juvénal Habyarimana triggered this event. Hutus slaughtered Tutsis during, for 10 points, what 1994 genocide in a namesake African country?

ANSWER: 1994 **Rwandan Genocide** [accept word equivalents]

2. **Two lambs are separated from the title vehicle in this artist’s *The Harvest Wagon*. Bulls drink water from a stream while a lady rides a white horse in his *Road from Market*. Another one of his paintings shows a dog looking up at a man holding a rifle next to his wife. In addition to (\*)** *Mr.  and Mrs. Andrews*, his most famous painting features Jonathan Buttall putting his hand on his hip while he wears the title color. For 10 points, name this English painter of *The Blue Boy.*

ANSWER: Thomas **Gainsborough**

3. **One character in this novel insists that she did not strangle her mother while they were at the Clearing, but that she was strangled by the “circle of iron”. The protagonist of this novel worked on Mr. Garner’s Sweet Home plantation in Kentucky with Paul D, who compares his heart to a “tin (\*)** tobacco box”. The title character disappears from 124 Bluestone Road when her mother attacks Mr. Bodwin with an ice pick after mistaking him for a sadistic schoolteacher and slave owner. For 10 points, name this novel in which Sethe is haunted by the ghost of the daughter she killed, a work by Toni Morrison.

ANSWER: ***Beloved***

4. **This country contains the most UNESCO World Heritage sites of any other country in the world, at 50. This Ligurian coast is a popular tourist destination in this country. The largest active volcano in Europe is located in this nation; that volcano is Mt. Etna. To the west of this nation is the** (\*) Tyrrhenian Sea, into which the Arno and Tiber rivers flow. The Apennine Mountains run along the length of this country, which is bounded to the north by the Alps. Sardinia and Sicily are possessions of, for 10 points, what boot-shaped Southern European nation with capital at Rome?

ANSWER: **Italy** [accept **Repubblica Italiana** or **Italian Republic**]

5. **Characters in a play by this author offer to put on a production of “the Rape of the Sabine Women.” A play by this author is set in Sidley Park at two different time periods. A character adapted by this man believes he has killed the Player with a retractable knife. (\*)** In a play by this man, Hannah and Bernard discover that a drawing of a “hermit” is actually of Septimus Hodge, the tutor of mathematical prodigy Thomasina Coverley. A flipped coin turns up heads a surprising number of times in a play by this man about two characters from *Hamlet*. For 10 points, name this author of *Arcadia* and *Rosencrantz and Guildenstern are Dead*.

ANSWER: Tom **Stoppard**

6. **The band filling / emptying effect alters the quantum form of this quantity for low density of state systems. For two concentric spheres, this quantity is equal to 4pi epsilon naught divided by the reciprocal of the inner radius minus the outer radius. One divided by the product of angular frequency and this quantity gives its namesake (\*)** reactance.In a namesake device, increasing the dielectric constant increases this quantity. This quantity is defined as charge over voltage and is measured in farads. For 10 points name quantity that measures the ability to store charge.

ANSWER: **capacitance**

7. **Some places in England have parades called “whit walks” on this holiday.” On this holiday, people dress up in and decorate churches with the color red to represent the power and fire of the Spirit. In Judaism, this holiday is known as Hag Shavuot or the** (\*) “Feast of Weeks” and commemorates the giving of the Torah at Mount Sinai. This holiday commemorates chapter 2 of Acts, which describes a group of followers speaking in tongues after they receive the Holy Spirit. For 10 points, name this holiday celebrated 50 days after Easter Sunday.

ANSWER: **Pentecost**

8. **After the original theme is played by cellos, bassoons, and double basses, the fourth movement of this work becomes transposed to F-sharp major from B minor. That movement accelerandos into *prestissimo* tempo before the next movement, “The (\*)** Abduction of the Bride”. An oboe and flute depict a sunrise in 6/8 time in the movement titled “Morning Mood” while a theme of staccato eighth notes represent the title character’s escape from trolls in its most famous movement. For 10 points, name this set of two suites whose fourth movement is “In the Hall of the Mountain King”, composed by Edvard Grieg.

ANSWER: ***Peer Gynt***

9. **One organization based in this city created “citizen schools” to help people pass literacy tests. One speech delivered in this city expressed preference for “severe and constant struggle” over “artificial forcing”, words (\*)** W.E.B. DuBois would later denounce. Martin Luther King, Jr. helped found the Southern Christian Leadership Conference. Blacks were urged to “cast down your bucket where you are” in a speech in this city delivered by Booker T. Washington. For 10 points, name this city in Georgia where a “Compromise” speech was held in 1895.

ANSWER: **Atlanta**, Georgia

10. **One character in this work is going to Pittheus, King of Troezen to interpret the Oracle’s advice “not to unstop the wineskin’s neck”. The title character of this work gives a spiteful, feminist speech lamenting her situation, which worries the king and results in her getting exiled. At the end of this work, the title character escapes in the dragon-pulled chariot of (\*)** Helios. Another character in this play, Glauce, is gifted with a coronet and a dress laced with poison, which kill her and her father, Creon. For 10 points, name this tragedy in which the title sorceress kills her own children for revenge on her husband Jason, a play by Euripides.

ANSWER: ***Medea***

11. **A theorem this mathematician names with Heine states that if *f* is a continuous function from a compact metric space to another metric space, then *f* is uniformly continuous. His namesake theorem states that the power set of *A* has greater cardinality than *A* itself, and he chose the symbol (\*)** aleph-null to represent the cardinality of natural numbers. This mathematician postulated that no set has a cardinality between that of the integers and the real numbers, which is known as the continuum hypothesis.  For 10 points, name this mathematician who proved that the real numbers are uncountable by using his diagonalization argument.

ANSWER: Georg **Cantor**

12. **As a result of this man’s murder of Perdix, Athena left a scar resembling a partridge on his right shoulder. At King Cocalus’ behest, this man threaded a seashell by coaxing an ant through it with honey. After that incident, this man killed King (\*)** Minos by pouring boiling water on him. This man fashioned a prison for the Minotaur after creating a wooden bull for Pasiphaë. He created wings out of feathers and wax for himself and his son to escape imprisonment in a tower. For 10 points, name this ancient Greek inventor, the father of Icarus and architect of the Labyrinth.

ANSWER: **Daedalus**

13. **One character in this play comments that “the management can cut off the current if they want to,” and that character visits his uncle on his days off. Another character in this play points out the hideous sofas and reminisces about how Peter used to call her his (\*)** “crystal girl.” One of the three main characters in this play states, “Each of us will act as the torturer of the two others.” After the locked door finally opens at the end of this play, a character exclaims that “Hell is other people.” For 10 points, name this existential French play starring Inez, Garcin, and Estelle, written by Jean Paul Sartre.

ANSWER: ***No Exit*** [or ***Huis Clos***]

14. **ABC proteins rely on the binding of this molecule to transport substrates across the cell membrane. Four of these molecules are consumed in order to convert lactate to glucose in the Cori cycle. G proteins activate adenylyl cyclase causing the conversion of this molecule into a** (\*) secondary messenger called cAMP. A rotor protein with F0 and F1 subunits is used to synthesize this molecule that is produced in oxidative phosphorylation. Two of these molecules are formed at the end of glycolysis. For 10 points, name this molecule known as the “energy currency” of the cell.

ANSWER: **ATP** [accept **adenosine triphosphate**]

15. **This man asked the sexist philosophers of his time “Supposing Truth is a woman—what then?” This thinker claimed that the shadow of God was impossible to overcome, which he analogized to the Buddha’s shadow remaining on cave walls after the sage’s death. In one work, this philosopher criticized Socrates for limiting the (\*)** Dionysian element, ultimately destroying Athenian drama. This man determined that the “will to power” drove all humans to action. His concept of “eternal recurrence” was first posited in his work *Thus Spake Zarathustra*. For 10 points, name this German philosopher, famous for his assertion that “God is dead.”

ANSWER: Friedrich Wilhelm **Nietzsche**

16. **This man nearly drowned in the Battle of Vittsjö during the Kalmar War. This non-Russian won the province of Ingria after he signed the Treaty of Stolbovo with Czar Michael Romanov. This king appointed Axel Oxenstierna Governor-General of occupied Prussia. After forcing back Catholic forces at the Battles of Rain and (\*)** Breitenfeld, he lost his life at the Battle of Lützen. This general used combined arms tactics to great effect. For 10 points, name this “Lion of the North,” a king of Sweden who led his army during the Thirty Years’ War.

ANSWER: **Gustavus Adolphus** Magnus [accept **Gustav II Adolf**]

17. **A sculpture by this artist shows the titular civil war general halting his horse by pulling on its reins while holding his hat. Along with *General Philip Sheridan*, another one of this artist’s sculptures shows a man bending his knees and stretching out his arms which are attached to wings. Another sculpture of this artist depicts the title mythical animals galloping away. Along with (\*)** *The Aviator* and *Mares of Diomedes*, his most famous work was carved using dynamite and displays the faces of four American presidents. For 10 points, name this sculptor of Mt. Rushmore.

ANSWER: Gutzon **Borglum**

18. **Ultra low velocity zones are found above this layer. This layer is the outermost of the two layers separated by the Lehmann discontinuity, and the innermost of the two layers separated by the Gutenberg discontinuity. Shadow zones are created due to the fact that (\*)** S waves are completely stopped by this layer and P waves are refracted by it. Geodynamo theory posits that earth’s magnetic field is generated by the rotation of nickel and iron in this liquid layer. For 10 points, name this layer of the earth located between the mantle and the inner core.

ANSWER **outer core** [prompt on “core” until “Lehmann”]

**19. This figure appeared on a submission for a proposed national flag for New Zealand. A picture of this figure wearing a sweater and tie while holding a yellow drink is used to celebrate good forum replies. This character originated from a comic strip called Boy's Club and was subsequently popularized on (\*)** 4chan, along with the tagline, "Feels good man." Its smug version is usually depicted next to Wojak, while this meme's sad version is used next to a phrase which includes the words, "You Will Never." For ten points, name this sometimes sad or "rare" internet amphibian commonly used to reply to posts.

ANSWER: **Pepe** the Frog

20. **During the reign of this ruler, the Plague of Galen killed roughly five million people in his empire. He banished Germanic tribes who had settled in Italy after the Ravenna revolts. Avidius Cassius organized a revolt after believing this man had died of illness.** **Lucius Verus co-ruled the empire with this man after the death of (\*)** Antonius Pius. Less than a year after this man’s death, his son, Commodus, signed a peace deal with the tribes along the Danube. For 10 points, name this man that Machiavelli dubbed the last of the Five Good Emperors.

ANSWER: **Marcus Aurelius** Antoninus Augustus

TB. **At the age of 13, this man was apprenticed to Ghirlandaio. A few years later, he sculpted the *Madonna of the Steps,* his first independent work. This artist sculpted a horned Moses for the tomb of Pope (\*)** Julius II. He depicted a man cradled in a much larger woman’s lap in his depiction of the Pietà, which notably omits Christ’s Passion. This man sculpted a contrapposto Biblical figure on the verge of fighting Goliath. For 10 points, name this Renaissance sculptor of the ceiling of the Sistine chapel, and the marble *David*.

ANSWER: **Michelangelo** di Lodovico Buonarroti Simoni

1. An example of one of these include the period of the United Fruit Company’s *de facto* control over Honduras’ economy in the early 1900s. For 10 points each:

[10] Give the political science term for an unstable country that is largely based on the export of a single commodity, ruled by an oligarchy of the wealthy. Pablo Neruda criticized their existence in *La United Fruit Co.*

ANSWER: **banana republic**s

[10] The establishment of banana republics in Latin America came after the passage of this document, which subsequently led to America’s “Good Neighbor Policy”. It was amended to the Monroe Doctrine.

ANSWER: **Roosevelt Corollary** [accept **Roosevelt Doctrine**]

[10] The US used the Roosevelt Corollary to justify its occupation of this country in 1915. After US forces left this country in 1934, Rafael Trujillo organized the killing of people from this nation living in the Dominican Republic.

ANSWER: Republic of **Haiti** [accept Repiblik **Ayiti**]

2. These units are typically represented between two forward slashes. For 10 points each:

[10] Name smallest linguistically useful units of sound which can be combined to create morphemes or larger units. Minimal pairs differ by only a single one of these.

ANSWER: **phonemes**

[10] Divergent phonetic realizations of a single phoneme, such as the “k” in “kill” and “skill”, are known by this term.

ANSWER: **allophones**

[10] These are the smallest linguistic units that can have literal or practical meaning. They can be combined to form phrases, clauses, or sentences, and are composed of letters.

ANSWER: **words**

3. Collaborating with Philip Johnson, this man designed the Seagram building. For 10 points each:

[10] Name this minimalist architect who coined the term “less is more”. He worked with Lilly Reich on the Barcelona chair.

ANSWER: Ludwig Mies **van der Rohe**

[10] Van der Rohe was the third director of this Weimar design school. Translated literally, it means “construction house” but it’s usually taken to mean “school of building”.

ANSWER: Staatliches **Bauhaus**

[10] The founder of the Bauhaus was this designer of the University of Baghdad and the US Embassy in Athens.

ANSWER: Walter **Gropius**

4. Cardinal Scipione Borghese commissioned this Baroque sculpture, for 10 points each:

[10] Name this sculpture depicting the abduction of its title goddess, known for its figura serpentinata. The mythical beast Cerberus lies behind Pluto, who grips the title figure’s thigh.

ANSWER: *The* ***Rape of Proserpina***

[10] Name this creator of the Baroque style of sculpture, known for works such as *Apollo and Daphne* and *The Rape of Proserpina.*

ANSWER: Gian Lorenzo **Bernini**

[10] This Bernini work features an angel piercing the title woman with a spear, lying on a cloud. This central sculpture of the Cornaro Chapel in the Santa Maria della Vittoria is surrounded by four black pillars.

ANSWER: ***Ecstasy of Saint Theresa*** [or ***L'Estasi di Santa Teresa***]

5. This member of the G-protein-coupled-receptor family reduces the concentration of cyclic GMP upon activation. For 10 points each:

[10] Name this protein that plays a role in light perception and whose “channel-” type is used in optogenetics.

ANSWER: **rhodopsin**

[10] Rhodopsin is the primary pigment found in these cells that are used for peripheral vision and seeing in the dark. These cells are terrible at perceiving color.

ANSWER: **rod** cells

[10] Rod cells and cone cells are found in this part of the eye that contains the macula and the fovea and is found in the back of the eye.

ANSWER: **retina**

6. Grand Isle, a resort in southern Louisiana owned by Madame Lebrun, is the setting for most of this novel. For 10 points each:

[10] Name this novel in which Edna Pontellier drowns herself in the Gulf of Mexico after having an affair with Robert Lebrun.

ANSWER: *The* ***Awakening***

[10] This American author wrote *The Awakening*. She also wrote the short stories “A Night in Acadie” and “The Story of an Hour.”

ANSWER: Kate **Chopin**

[10] In this story by Kate Chopin, Armand disowns his wife and child when the baby appears to have African American ancestry that he discovers too late is his own.

ANSWER: “**Desiree’s Baby**”

7. These entities are formed by the interference pattern formed between a convex lens and flat glass. For 10 points each:

[10] Name these entities that appear as a concentric pattern of rainbow colors when viewed with white light.

ANSWER: **Newton**’s **ring**s [prompt on partial]

[10] Isaac Newton outlined his theory that white light was composed of many different colors in this work. He also introduced his corpuscular theory of light in this book.

ANSWER: ***Opticks***

[10] *Opticks* was Newton’s second major work, following this magnum opus. This set of three works contains Newton’s laws of motion and universal gravitation.

ANSWER: *Philosophiæ Naturalis* ***Principia*** *Mathematica*

8. Some of this book’s narrators include Pampinea, Filomena, and Panfilo, for 10 points each:

[10] Name this collection of stories told by a group sheltered in a villa outside Florence to escape the Black Death epidemic in the city.

ANSWER: *The* ***Decameron***

[10] This Italian humanist and correspondent of Petrarch wrote *The Decameron*.

ANSWER: Giovanni **Boccaccio**

[10] The man who tells this numbered story each day, Dioneo, is allowed to tell a tale on any topic he wishes. There are this number of nights of storytelling in the work.

ANSWER: **ten**

9. This play was produced two years after Athens’ failed Sicilian expedition, for 10 points each:

[10] Name this play in which the title character persuades the women of Greece to withhold sex from their husbands to force them to negotiate to end the Peloponnesian War.

ANSWER: ***Lysistrata***

[10] This Greek playwright wrote *Lysistrata* as well as *The Birds* and *The Clouds*.

ANSWER: **Aristophanes**

[10] In *The Clouds*, this elderly farmer and father of Pheidippides enrolls himself in “The Thinkery”, a school to turn inferior arguments into winning ones, to beat his creditors in court.

ANSWER: **Strepsiades**

10. Armed gunmen killed Geoffrey Dieudonne, a Parliament official from Belgium, in a 2015 attack in this city, for 10 points each:

[10] Name this capital of Mali, where Islamic militants held foreign nationals hostage on 20 November 2015.

ANSWER: **Bamako**

[10] The attack occurred at this hotel in Bamako, a favorite of government officials and wealthy foreigners. This hotel chain is operated by Carlson Rezidor Hotel Group.

ANSWER: **Radisson Blu**

[10] Al-Mourabitoun, an offshoot of this larger terror group, claimed to have carried out the attacks. This group was responsible for the attacks on September 11, 2001.

ANSWER: **al-Qaeda** in the Islamic Maghreb [or **AQIM**]

11. This genre of American music was popular in the 1930’s and 1940’s during its namesake “Era”. For 10 points each:

[10] Name this genre of music that emphasizes a strong flow and syncopated beats, hence its name. Prominent artists of this genre include Count Basie, Artie Shaw, and the “king of [it],” Benny Goodman.

ANSWER: **swing** [prompt on “jazz”]

[10] Another swing artist was this jazzy pianist and composer who was famous for songs such as “It Don’t Mean a Thing If It Ain’t Got That Swing” and “Take the ‘A’ Train”.

ANSWER: Duke **Ellington**

[10] This 1967 album by Duke Ellington was inspired by his world tour and featured the tracks “Ad Libs on Nippon”, “Bluebird of Delhi”, and “Isfahan”.

ANSWER: *The* ***Far East Suite***

12. This work attempts to “justify the ways of God to man.” For 10 points each:

[10] Name this epic poem by John Milton depicting Adam and Eve’s expulsion from the Garden of Eden.

ANSWER: ***Paradise Lost***

[10] In *Paradise Lost*, Satan claims it is better to reign in Hell than to do this action in Heaven.

ANSWER: “**serve**”

[10] This place serves as the capital of Hell in *Paradise Lost*. It was designed by the architect Mulciber and houses the debate between the Stygian Council in Book II.

ANSWER: ***Pandæmonium***

13. Hindus perform this action on days such as Ekadashi and Maha Shivaratri, for 10 points each:

[10] Name this activity, the voluntary refusal of food for a defined period of time.

ANSWER: **fasting**

[10] Christians fast or give up certain foods during this forty-day holiday, which begins on Ash Wednesday. It commemorates the death and resurrection of Jesus Christ.

ANSWER: **Lent**

[10] Muslims fast during the month of Ramadan as per this one of the five pillars of Islam. During that fast, practitioners abstain from all food and drink during daylight hours.

ANSWER: **sawm**

14. It surpassed Wal-Mart as the most valuable retailer in America in 2015, despite not actually owning any physical stores. For 10 points each:

[10] Name this online retail company founded by Jeff Bezos in 1994. It launched its Kindle tablet line in 2007, which sold out in the first five hours after launch.

ANSWER: **Amazon**.com

[10] In 2005, Amazon launched this membership service that gave US consumers free two-day shipping. Members of this service also receive instant streaming services from Amazon Video.

ANSWER: Amazon **Prime**

[10] In 2015, Amazon covered an entire NYC subway car in advertisements for this original Amazon Video series. Based on the book by Philip Dick, the series takes place in an alternate future where the Axis Powers won WWII and control the US.

ANSWER: *The* ***Man in the High Castle***

15. One of these forms of communication was developed on Martha's Vineyard due to a genetic trait common among the population. For 10 points each:
[10] Identify this method of communicating with people who are hearing-impaired, which often involves the use of predetermined gestures with the hands.
ANSWER: **sign language** [10] An early opponent of sign language was this American inventor of the telephone, whose focus on speech led him to support abusive schools for deaf children in order to prevent them from signing.
ANSWER: Alexander Graham **Bell**

[10] One of Bell's early experiments involved one of these animals, which he trained to "speak" the phrase "How are you, grandma?"
ANSWER: **dog**

16. This compound’s structure was determined by August Kekulé. For 10 points each:

[10] Name this compound often drawn as a circle surrounded by a hexagon, with chemical formula C6H6.

ANSWER: **benzene**

[10] Benzene is the simplest hydrocarbon with this property. Planar rings of atoms can demonstrate this property that imparts unusual stability to the molecule.

ANSWER: **aromaticity** [or **aromatic**]

[10] This rule states that aromatic molecules must have four n plus plus two pi electrons.

ANSWER: **Huckel**’s rule

17. These bodies of water form in partially enclosed areas where water from rivers meet water from oceans. For 10 points each:

[10] Name these bodies of brackish water exemplified by the Chesapeake Bay.

ANSWER: **estuary** [or **estuaries**]

[10] The Pamlico Sound in North Carolina is an example of one of these types of estuaries since it was formed by being largely separated from the Atlantic ocean by barrier islands.

ANSWER: **bar**-built  [accept “**lagoon**” due to ambiguities]

[10] A type of estuary named for a “wedge” containing this substance has massive river output that circulates at the surface. Brackish water consists of a mix of freshwater and water containing this substance.

ANSWER: sea **salt**

18. By compiling the Doom Book, this man provided the basis for common law throughout England. For 10 points:

[10] Name this ruler of Wessex who defeated the Guthrum at the Battle of Eddington to become known as the “great” King of England

ANSWER: **Alfred** the Great

[10] Contrary to popular belief, this other King of England was also known as the “great”. He was the son of Sweyn Forkbeard and commanded an incoming tide to not wet his feet.

ANSWER: **Canute** the Great [also accept **Cnut** the Great]

[10] Canute hailed from this Viking country, which was Christianized in 965 by Harald Bluetooth and has modern-day capital at Copenhagen.

ANSWER: **Denmark**

19. This being castrated his father Uranus with a scythe and reigned over a mythical Golden Age. For 10 points each:

[10] Name this husband and brother of Rhea, who swallowed five of Rhea’s children. This deity’s sixth child, Zeus, overthrew him after freeing his fellow siblings with an emetic.

ANSWER: **Kronos** [or **Cronus**]

[10] After the overthrow of Kronos, the ensuing rebellion of Zeus’s Olympians against Kronos and his siblings was given this name.

ANSWER: **Titanomachy**

[10] This Titan was one of the original 12 siblings of Kronos. Given the epithet “the Piercer,” his sons include Atlas, Prometheus, and Epimetheus.

ANSWER: **Iapetus**

20. This nation fought a 1969-70 war with Egypt over the former’s acquisition of the Sinai Peninsula. For 10 points each:

[10] Name this country which joined the United Kingdom and France in precipitating the Suez Canal Crisis. This nation’s official capital is Jerusalem, but its financial center is Tel Aviv.

ANSWER: State of **Israel**

[10] Israel preemptively launched this war against its Arab neighbors in 1967. During the war, Israel captured the Gaza Strip, the West Bank, and the Golan Heights.

ANSWER: **Six-Day** War

[10] Six years later, Egypt and Syria invaded Israel on this Jewish religious holiday. Prime Minister Golda Meir resigned after controversy involving the war named for this day.

ANSWER: **Yom Kippur**

TB. A scene in this film alternates between close-ups of men’s eyes and their hands reaching for guns during a Mexican standoff set in the middle of Sand Hill cemetery. For 10 points each:

[10] Name this film in which Angel Eyes follows Blondie and Tuco as they search for a cache of Confederate gold. Like the rest of Sergio Leone’s *Dollars Trilogy*, it starred Clint Eastwood.

ANSWER: ***The Good, the Bad, and the Ugly***

[10] *The Good, the Bad, and the Ugly* exemplifies the “spaghetti” type of this genre that was popularized by John Wayne and features many cowboys.

ANSWER: **Western**s

[10] This film composer wrote the score for *The Good, the Bad, and the Ugly*, which includes many of his most famous pieces such as the film’s theme and *The Ecstasy of Gold*.

ANSWER: Ennio **Morricone**