

Detroit Catholic Central Shamrock Quiz Bowl Camp
Middle School Tournament

Round 1

1. <NP> Verrocchio's version of this figure was commissioned by Lorenzo de Medici and depicts this man holding a dagger. Bernini's depiction of this figure shows a harp at his feet, while another depiction of him wears only a helmet and stands on a decapitated head. Unlike the bronze sculpture of this figure by Donatello, the marble Florentine version depicts him holding a sling but does not show his defeated enemy, Goliath. For the point, name this religious figure of the Old Testament who was famously depicted in the nude by Michelangelo. (90)

Answer: David

2. <CS> This structure houses Cajal bodies and the namesake envelope of this structure is continuous with the Endoplasmic Reticulum. This structure, which is supported by lamin proteins, has a double membrane similar to the mitochondria. Visible through a DAPI stain and not found in red blood cells, this organelle has a substructure that creates ribosomes and this structure is not found in prokaryotes. For the point, name this organelle that contains the DNA of the cell and is known as the control center of the cell.

Answer: Cell Nucleus

3. <SG> One speech given by this man used the metaphor of "cashing a check" and a speech announcing this man's death was given by Robert Kennedy. One organization that he led ran the Poor People's Campaign after his death, that organization was the Southern Christian Leadership Conference. He claimed that "injustice anywhere is a threat to justice everywhere" in a Letter from Birmingham Jail, and his last speech noted, "I have been to the mountaintop." That speech was given before James Earl Ray assassinated this man in Memphis. For the point, name this peaceful african american civil rights activist who gave his "I Have a Dream" speech at the March on Washington.

Answer: Dr. Martin Luther King, Jr. [or MLK]

4. <RC> Two of this religion's most important books are hypothesized to have taken material from the Q source. Another book of this faith describes a star named Wormwood and 144,000 people who are marked for the afterlife. Members of this faith celebrate Maundy Thursday three days before another holiday which marks the end of a period of forty days that begins with Ash Wednesday. For the point, name this faith whose members observe Lent before they celebrate the coming of Jesus on Easter. (83)

Answer: Christianity [or word forms; accept specific forms of Christianity, such as Roman Catholicism]

5. <DD> • In one story by this author, a character decides to change her look after Marjory insults her social "hopelessness". This author of *Bernice Bobs Her Hair* wrote of a man who was "worth the whole damn bunch put together" and whose car was used in the vehicular manslaughter of Myrtle Wilson. In one book by this author, a man builds a family estate next to an extremely large gemstone in rural Montana. *A Diamond As Big As The Ritz* is by this author, who wrote a story in which Nick Carraway narrates the life and times of the titular East Egg resident. Name this author of *The Great Gatsby*.

Answer: F. Scott Fitzgerald

6. <RC> In a song titled “Notes...” this work’s title character demands that the female lead gets the role of prima donna in a production of *Il Muto*. In this musical, Carlotta and Piangi are given lead roles, much to the chagrin of the title figure, who sings “The Point of No Return” and “Angel of Music.” The lead female of this musical sings “Think of Me” in a duet with her lover Raoul, and later, a chandelier crashes onstage. For the point, name this Andrew Lloyd-Webber musical about a man with a mask who falls in love with Christine Daae. (99)

Answer: *The Phantom of the Opera*

7. <LB> This poem describes a group that “clung to that hope which springs eternal from the human breast.” In this poem, Flynn, “a lulu,” and Jimmy Blake, “a cake,” surprise a crowd from whose “5000 throats and more there rose a lusty yell.” This poem claims “The band is playing somewhere, and somewhere hearts are light, and somewhere men are laughing, and somewhere children shout” before declaring “there is no joy in Mudville,” after the title character strikes out. For the point, name this poem by Ernest Thayer.

Answer: “Casey at the Bat”

8. Orderic Vitalis claimed this man confessed to murder on his deathbed. This ruler commissioned the Battle Abbey to celebrate his most famous victory. This ruler led the Harrying of the North against rebellious barons. This man married Matilda of Flanders, and his father was Robert the Devil. This man built the Tower of London, and he commissioned the Domesday Book. For the point, name this Norman ruler who won the battle of Hastings in 1066.

Answer: William the Conqueror

9. <RC> Operation Black Swan took place in this country and saw the arrest of a man who had earlier engaged in interviews with Sean Penn and Kate del Castillo. This country’s 2006 and 2012 presidential elections both involved a narrow defeat for Andres Manuel Lopez Obrador of the PRD. This nation’s government is dominated by the PRI, which is currently headed by this country’s president Enrique Peña Nieto. For the point, name this country where El Chapo’s Sinaloa cartel operated, a nation which President Trump hopes to separate from the U.S. by building a wall.

Answer: Mexico

10. <CS> These objects can potentially be in the Aten group when they orbit a certain body. They are absent in places called Kirkwood gaps due to the resonant gravitational pull of Jupiter. They have a Trojan kind that are in Jupiter’s orbit and a prominent one is known as Vesta which is classified as a M type. Found within Lagrangian points, the largest kind of them is called Ceres. For the point, name these objects which are found between Mars and Jupiter in their namesake belt which caused the crater on the Yucatán peninsula.

Answer: Asteroids

11. <NP> This painting's alternative name is attributed to its central figure's husband, the silk merchant Francesco del Giocondo of the Gherardini family. This painting, which bears resemblances to its artist's portrait of Ginevra de' Benci, was stolen in 1911 by a nationalist named Vincenzo Peruggia. For his piece L.H.O.O. Q., Marcel Duchamp drew a moustache onto this painting, whose central figure is seated in an Italian loggia behind which a winding river flows underneath a bridge. For the point, name this Leonardo da Vinci portrait of a woman with an enigmatic smile. (94)

Answer: Mona Lisa

12. <NP> One of this politician's daughters is known for her involvement in gymnastics, though has recently undergone a public divorce which has seen her former husband lose almost half of his fortune in his loss of control in shares of Gazprombank. One of this politician's few challengers for the 2018 election, Alexei Navalny, has recently been barred from running by his country's Central Electoral Commission following his calls to boycott the next election cycle. This politician rose to fame following his career in the KGB through his tenure leading the FSB under the recommendation of Boris Yeltsin. For the point, name this President of Russia who annexed Crimea in 2014.

ANSWER: Vladimir Putin

13. <LB> Because he is so unlucky, the title character of this novel is called "salao," and near the end of this novel, that man's hand cramps up while he cuts dolphin meat. It begins and ends with descriptions of lions on a beach, and this novel's protagonist adores Joe Dimaggio and fears the "Indians of Cleveland." An arm-wrestling contest with a "man from Cienfuegos" is described in this novel which sees the title character break his 84 day long bad-luck-streak by catching a large marlin, which is eaten by sharks before that character reaches shore. Manolin accompanies Santiago on fishing trips in, for the point, what novel by Ernest Hemingway.

Answer: The Old Man and the Sea

14. <JF> Politicians from this country have been implicated of taking bribes from the company Recruit. One ruler of this country gave the Jewel Voice broadcast during a war. Earlier in its history, it used the Dutch Learning system while cutting itself off from most of the world. 26 Christians were martyred here after the wreck of the ship San Felipe. Francis Xavier brought Christianity to this country in 1549. One ruler of this country issued the Declaration of Humanity. For the point, name this country which fought with the US in the Pacific during World War Two.

Answer: Japan

15. <IM> On July 4, a player made an announcement in The Players' Tribune that he was going to join this team, a move that was highly criticized by fans. With the 35th pick in the 2012 draft, this team drafted a player who spent four years playing for Michigan State. Under head coach Don Nelson, this team had a high-scoring trio called "Run TMC", which consisted of Tim Hardaway, Mitch Richmond, and Chris Mullin. This team holds the NBA records for best regular season, most wins in the regular season and postseason combined, and the best postseason record. Players for this team include Draymond Green, Kevin Durant, and the "Splash Brothers", a duo made up of sharpshooters Klay Thompson and Stephen Curry. For the point, name team based in Oakland, California.

Answer: Golden State Warriors

16. <FW> One of these beings was castrated by its son, and its blood falling onto earth created giants. Odysseus' men ate the cattle of one of these beings and that same one of these beings was depicted in the Colossus of Rhodes. One of these beings shares its name with an ocean that was between Gondwana and Laurasia during the Mesozoic era and Leto, the mother of Artemis and Apollo was one of these beings. Gaia gave birth to these beings who were eventually overthrown by Zeus. For the point, name these mythological beings that were led by Kronos.

Answer: **Titans**

17. <LB> A duel in this play between the servants Abraham and Balthasar prompts a man nicknamed "the prince of cats" to begin a duel with Benvolio. A separate duel in this play ends with the loser crying "a plague upon on both your houses!" One title character in this play claims he never saw true beauty "til' this night!" when he first sees the title character, even though he claimed to love Rosaline. Tybalt and Mercutio duel in this play that sees Friar Lawrence marry the two title star-crossed lovers. For the point, name this play by Shakespeare centering on the Montagues and the Capulets.

Answer: **Romeo and Juliet**

18. <CS> This compound is a major component of syngas along with water vapor. Found in clathrates, this compound is made by certain archaea that are found on sea floors near hydrothermal vents. This compound forms chloroform when it has 3 chlorine bonded to it. Found on Titan in liquid form, this simplest alkane is the second highest human-created greenhouse gas after carbon dioxide. For the point, name this molecule that has odors added to it as it is normally scentless and has chemical formula CH₄.

Answer: **Methane**

19. <RC> Suspicions that this man was aboard a flight with Bolivian president Evo Morales led that plane to be grounded and searched. This man's most famous action came after James Clapper lied under oath. Glenn Greenwald and Laura Poitras received emails from this figure which would eventually be published in the *Washington Post* and the *Guardian*. While working for Booz Allen Hamilton, he exposed the PRISM surveillance program and was forced to seek asylum in Moscow. For the point, name this fugitive who leaked NSA information in 2013.

Answer: Edward Joseph **Snowden**

20. <JF> One leader of this country was Alexander Stephens, who gave the "Cornerstone Speech". This country's navy fought against the U.S. Navy in the Battle of Cherbourg, off the coast of France. The US Navy captured two delegates from this country in the Trent Affair, and those delegates were John Slidell and James Mason. James Waddell was a captain in this country's navy and captained The Shenandoah. This country's army lost the battles of Antietam and Gettysburg. For the point, name this country which fought the Civil War with the United States.

Answer: **Confederate States** of America

21. <IM> In the Root effect, hemoglobin is affected by this quantity. The Henderson-Hasselbalch equation relates this quantity to the pKa. This quantity for an aqueous solution can be measured with a glass electrode and a meter. Compounds that measure this quantity include Bromophenol blue and phenolphthalein. Buffer solutions usually keep this quantity near seven. For the point, name this quantity used to specify how acidic or basic a solution is.

Answer: pH

22. <CS> These objects have a special subtype known as magnetars and another subset of these celestial objects was discovered by Hulse and Taylor. Found in the core of the Crab Nebula, these objects form a core-collapse supernova. One subtype of them causes the lighthouse effect and they can held together by degeneracy pressure that comes from their namesake particle. For the point, name these objects which have a special form known as pulsars and are made up of uncharged particles.

Answer: Neutron Star

23. <LB> This author claims “There is no frigate like a book” in one poem, and in another describes a person as “debauchee of dew” and “inebriate of air” before saying “I taste a liquor never brewed.” This poet wrote about a snake in “A Narrow Fellow in the Grass,” and describes a “blue, uncertain, stumbling buzz” before claiming “I could not see to see” in her poem “I heard a fly buzz when I died.” This poet describes horses whose heads were turned “toward Eternity” and a being who “kindly stopped for me” in her most famous poem. For the point, name this “Belle of Amherst” who wrote “Because I Could Not Stop for Death.”

Answer: Emily Dickinson

24. <JF> This man co-founded the paramilitary group Spear of the Nation. He escaped capture at Liliesleaf Farm by pretending to be a cook and gardener. This man later set up the Truth and Reconciliation Commission in his highest post. He was earlier tried at the Rivonia Trial, where he gave the “I am Prepared to Die” speech. After that trial, he was imprisoned for 27 years on Robben Island. This leader won the Nobel Peace prize with F. W. de Klerk for his major role in helping end apartheid. For the point, name this first Black president of South Africa.

Answer: Nelson Mandela

25. <RC> This river contains Lake Havasu, and its source is generally thought to be La Poudre Pass. This river formed Glen Canyon, and it serves as the tributary between Baja California and Sonora. One tributary of this river is the Green River, while another of its tributaries, the Gila River, joins this river near the city of Yuma in Arizona. Lake Powell and Lake Mead are two reservoirs formed by dams on this river. For the point, name this river in the western United States which flows through both the Hoover Dam and the Grand Canyon.

ANSWER: Colorado River

26. <CS> This force's constant was first found through the Cavendish experiment and its effect on redshift was measured by the Pound-Rebka experiment. Equivalent to an accelerating observer by relativity, this force has a namesake lensing that occurs when it bends light. It with relation to multiple celestial objects is the basis of the n-body problem and this is the curvature of spacetime according to General Relativity. For the points, name this force which was first described by Isaac Newton and the acceleration of it is about 9.81 meters per second on Earth.

Answer: Gravity

27. <LB> This city was once home to a medieval university called Al-Azhar, and it's Hanging Church is the seat of the Coptic Pope. Residents living near Mokattam Hill collect trash for a living in its Garbage City, and it contains a cemetery filled with millions of graves known as the City of the Dead. In this city's "old" district, remnants of its old Muslim capital, Fustat, remain. This "City of a Thousand Minarets" was the site of a 2011 revolution that occurred largely in Tahrir Square, also known as Liberty Square. For the point, name this city located on the delta of the Nile, near the Sphinx and Pyramids of Giza, that is the capital of Egypt.

ANSWER: Cairo

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Round 2

1. <JF> John Trumbull created a painting of this event, and this battle saw the death of John Adam's friend Joseph Warren. John Pitcairn was mortally wounded by Peter Salem at this battle, and one side was ordered to retreat after they had exhausted their ammunition supply. After his pyrrhic victory here, Thomas Gage was relieved of command. The losing side at this battle was reportedly ordered not to shoot until they "see the whites of their eyes". For the point, name this Revolutionary War battle which actually mostly took place on Breed's Hill.

Answer: Battle of Bunker Hill

2. <CS> This constellation has a gamma star nicknamed the "amazon star" which is Bellatrix. This constellation which has a cluster known as Trapezium contains Rigel, the brightest star in this constellation despite being a beta star and notable asterisms in this are Montana, Alnitak, and Alnilam. Containing the horsehead Nebula, this constellation has Betelgeuse as its alpha star. For the point, name this constellation that contains the Messier Object 42 and is named for a hunter and contains both a sword and belt.

Answer: Orion

3. <LB> In one story by this author, "Old Scratch" tempts the main character a deal in exchange for Captain Kidd's buried treasure. This author who wrote under the pen names "Jonathan Oldstyle" and "Diedrich Knickerbocker" wrote works like Tales of the Alhambra and "The Devil and Tom Walker." The title character of one story by this author travels into the Catskills with Wolf and sleeps through the American Revolution. This man's most famous famous story sees Brom Bones and Ichabod Crane vie for the love of Katrina Van Tassel. For the point, name this author of "Rip Van Winkle" and "The Legend of Sleepy Hollow."

Answer: Washington Irving

4. <PS> In one story, this deity nearly eats the palace of the god of wealth, Kubera, only to be placated by one handful of rice, and according to Vyasa, this deity is the author of the Mahabharata. The mount of this deity is a mouse, and after winning a race against his brother this deity received a mango of wisdom. That brother was Kartikeya, and in another story, this deity's head was cut off by Shiva after he stopped him from going to Parvati. For the point name this Hindu remover of obstacles whose head was replaced with that of an elephant.

Answer: Ganesha

5. <IM> In his first playoff game, this man established the "tuck rule" after getting hit by Oakland Raiders' cornerback Charles Woodson. That same year, this player became the youngest quarterback to win a Super Bowl. After playing college football for the University of Michigan, this player was selected in the sixth round of the 2000 NFL draft. This player was suspended for the first four games of the 2016 NFL season for his involvement in the Deflategate scandal. This man is one of just two players to win five Super Bowls and the only one to win them all playing for one team. This man is married to Brazil supermodel Gisele Bündchen. For the point, name this quarterback for the New England Patriots.

Answer: Tom Brady

6. <RC> This artist's final work is thought to be his *Wheatfield with Crows*, although he is more famous for depictions of his physician, Dr. Gachet. This painter spent much of his time in the Yellow House with Paul Gauguin. He depicted a man in a white suit standing next to a billiards table in his *Night Cafe*, and he also showed five gnarled peasants huddled around a table in his *Potato Eaters*. For the point, name this man who depicted the view from a sanatorium at Saint-Remy in his *Starry Night*, a Dutch painter who cut off his ear. (98)

Answer: Vincent Van Gogh

7. <RC> In this country's mythology, a woman kills herself after being forced to spend a year with a man she despises. One of its heroes burns his thumb while cooking the Salmon of Knowledge, and another figure from here fought the armies of Queen Medb in the Cattle Raid of Cooley. The majority of the stories about this country are contained in the Fenian and Ulster Cycles, and this nation's most prominent mythological figures include Deirdre of the Sorrows, Finn MacCool, and Cu Chulainn. For the point, name this Celtic country located west of Britain.

ANSWER: Ireland [I suppose prompt on Great Britain]

8. <PS> This man was defeated by Theodoric I and Aetius at the Battle of the Catalaunian Plains, and according to legend, he married Kriemhild, the lover of the hero Sigurd. He defeated Arnegisclus at the Battle of Utus and this leader came to power alongside his brother Bleda. The diplomat Priscus claimed that this man's death came from a nosebleed on the night of his wedding to Ildoco, and Pope Leo I convinced this man to retreat after they met in Mantua. For the point, name this "Scourge of God" who led the Huns in the fifth century.

Answer: Attila the Hun

9. <DD> • One work by this man was nicknamed "rising mildew" for its propensity to leak and develop mold. A workshop used by this man was named for a bard from Welsh mythology was called Taliesin. It was later burned down by an axe wielding murderer and former chef at the estate. A building by this architect is characterized by lily pad shaped structures and is named the Johnson Wax Headquarters. Another building by this man was so well designed that it survived the Japanese earthquake of 1923. This architect of the Imperial Hotel, Ennis House, and Unity Temple, is most famous for a house that sits above a river in Mill Run, Pennsylvania. For the point, name this architect of Fallingwater.

Answer: Frank Lloyd Wright

10. <RC> The Vondelpark is a large grassy park in this city, and a few Olympic venues remain from when this city hosted the 1928 Summer Olympics. This city's borough of Westport contains its main harbor, and the IJ (pronounced like the letter 'A') River and Amstel River run through this city. It sits at the southern tip of the Zuiderzee, a bay home to the world's largest artificial island of Flevopolder. The Schiphol International Airport serves this city, which holds many famous pieces of art in its Rijksmuseum. At the center of this city is its largest red-light district, De Wallen, and this city contains a semicircular ring of canals. For the point, name this city where Anne Frank's "Secret Annex" can be found, the largest city and capital of the Netherlands. (131)

Answer: Amsterdam

11. <CS> This shape is defined by the equations x equals cosine of t times quantity A plus b cosine of one half t , y equals sine of t times the quantity A plus b cosine of one half t , and z equals b times sine of one half t . A Klein bottle is result of splitting this figure in half and parading rings result from their repeated cutting. This simplest of the non-orientable shapes is commonly used for conveyor belts. It is formed by twisting a cut piece of paper then taping the two ends together. For the point, name this shape that only has one side.

Answer: Möbius Strip

12. <LB> The most populous city in this country is home to the affluent Ikoyi neighborhood, and a Muslim ethnic group in this country called the Hausa lives in the provinces of Sokoto and Kano. The Igbo inhabit this country's southeastern portion, which was the location of an uprising that tried to form the nation of Biafra. This country, home to the largest population of Yoruba people, contains the most populous city in Africa, the site of Nollywood. For the point, name this African nation with cities like Lagos and its capital, Abuja.

ANSWER: Nigeria

13. <LB> Marcela attends Grisotomo's funeral in this novel that sees the title character free a series of galley slaves, including Gines de Pasamonte. In this novel, Simon Carrasco is revealed to be the "Knight of the White Moon" and defeats the title character, who believes that a washbasin is Mambrino's helmet. The central characters of this novel ride mounts named Dapple and Rocinante on a quest driven by the protagonist's love for Dulcinea. The title character mistakes windmills for giants in, for the point, what novel by Miguel de Cervantes centering on Sancho Panza and the title elderly knight.

Answer: Don Quixote

14. <PS> This man allegedly dipped Christians in oil and set them on fire in his garden as candles, and during his reign Corbulo led a successful war against the Parthians. After this man's death Vindex's Rebellion brought this man's rival Galba to power, and after one event this man constructed his Domus Aurea. This emperor was closely advised by his mother Agrippina and he sent Vespasian to defeat the first of the Jewish Revolts. In the aftermath of the Pisonian conspiracy, this man had Seneca the Younger executed. For the point, name this Roman emperor who legendarily fiddled while Rome burned.

Answer: Nero Claudius Caesar Augustus Germanicus

15. <CS> These organisms have alpha a mating factors along with using "guns" to reproduce. Containing the genus *Aspergillus*, these organisms were the subject of studies done by Beadle and Tatum. One theory states that they may have been responsible for the Salem witch trials. A model organism in this kingdom is *Saccharomyces cerevisiae* and these organisms are structured with the help of Spitzenkörper. For the point, name this kingdom that is made up of hyphae and include members such as mushrooms and yeast.

Answer: Fungi

16. <LB> A boy in this work nicknamed “the frog” is pursued by Lungri, who is known as the “lame one.” Messua and her husband adopt the protagonist of this collection after they mistake him for Nathoo, and this collection includes a story in which Akela dies after telling the protagonist “Go to Man.” The cobras Nag and Nagaina are killed by the mongoose Rikki-Tikki-Tavi in this collection that includes the stories “Toomai of the Elephants” and “Kaa’s Hunting.” For the point, name this collection centering on Mowgli, written by Rudyard Kipling.

Answer: The Jungle Book

17. <DD> • A partita by this man features an often excerpted Chaconne section in D minor. In another work by this man, whenever people speak, a “halo effect” is utilized to highlight their voices. This composer of St. Mathew’s Passion wrote thirty contrapuntal works for solo piano arranged in chromatic order. A set of six instrumental works by this man was presented to Christian Ludwig, Margrave of the title German state as a gift. For ten points, name this German man who fathered 20 children including Wilhelm, Christoph, and Carl, and composed works like The Well Tempered Clavier and the Brandenburg Concertos.

Answer: J.S. Bach

18. <JF> The Thermidorian Reaction took place during this event, and that event saw the capture and execution of Maximilien Robespierre. This event began after the July 14th storming of a military prison. The Committee of Public Safety ruled for a time during this event, and during that time, it was called the Reign of Terror. Marie Antoinette was executed before she could flee this event. For the point, name this event in the late 18th century which saw the fall of the Bastille and the overthrow of Louis XVI.

Answer: French Revolution

19. <PS> When Freyr was proposing to the goddess Gerd, he gifted her the ring Draupnir as well as these things, and these things were given as a wedding gift to Zeus and Hera. These objects can be legendarily found on the Isle of Avalon, and Idunn is the Norse goddess of these objects. In order to defeat Atalanta in a footrace, Hippomenes had to drop three of them on the track so that she would stop and pick them up, and one of these objects was inscribed with the quotation “To the fairest.” For the point name these objects, one of which the Greek goddess Eris used to indirectly start the Trojan War.

Answer: apples [accept golden apples]

20. <CS> This compound can be used to great alcohols from alkenes and hydrogen. Its solid form was first explained by Charles Thilorier and the Keeling Curve is utilized to show the amount of it in the atmosphere. Its supercritical form is used to decaffeinate coffee and this compound is used to produce a diprotic acid when dissolved in water. That solution is the major contributor to ocean acidification. For the point, name this compound that is the main product of combustion which has a solid form known as dry ice.

Answer: Carbon Dioxide

21. <LB> The northeastern region of Isan lies along the Khorat Plateau in this country whose ancient capital city was at Lopburi. This country's largest island home to the resort beach Patong, which lies along the Andaman Sea, and was devastated by a 2004 tsunami. This country shares the Kra Isthmus with Myanmar, and the Chao Phraya River runs through the capital and flows into its namesake gulf, a branch of the South China Sea. The country owns the island Phuket and contains the cities Chiang Rai and Chiang Mai. Formerly known as Siam, this country is connected to its Eastern neighbor by "friendship bridges." For the point, name this country that borders Burma and Laos, with capital at Bangkok.

Answer: Thailand

22. <DD> A poem by this man begins "in paths untrodden/ in the growth by the margins of pond-waters" and goes on to celebrate "the need of comrades" and "athletic love." The title creature of a poem by this writer launched forth "filament, filament, filament". "Calamus" and "A Noiseless Patient Spider" are by this writer, who's small book of twelve poems grew to over 400 by the time of his death. This poet wrote a work celebrating the title person that includes the line "what i assume you shall assume". That poem, Song of Myself, was split into 52 sections at its final publication. Name this american poet of *Leaves of Grass*.

Answer: Walt Whitman

23. <RC> This man's heart was cleaned in a gold basin by angels when he was a child. In the Year of the Elephant, this figure was born into the Quraysh tribe, and forces commanded by this man withstood a siege at the Battle of the Trench. Khadijah gave birth to this figure's daughter Fatimah, and the sayings of this man are collected in the hadith. During the Night Journey, this figure travelled to Heaven on the winged steed Buraq, and at the Cave of Hira, Jibreel visited this man and revealed the Quran to him. For the point, name this central prophet of Islam. (103)

Answer: Muhammad

24. <CS> This event was followed by another event in Planck time and the substance following it was explained by Hawking. A material left over from this event is 2.73 kelvin and was first discovered by Penzias and Wilson. That material is the Cosmic Microwave Background Radiation. This event was first postulated by Georges Lemaitre and one proof of it came with the use of the Doppler effect by Hubble discovering that galaxies were moving away. For the point, name this event that started the Universe.

Answer: Big Bang

25. <FW> Fort Ross in California was built by this country and this country forced its Jews to live in its Pale of Settlement. One ruler of this country created a Table of Ranks and travelled around Europe in a "Grand Embassy." A ship that belonged to this country called the Aurora signaled the beginning of the assault on the Winter Palace during a revolution in this country and this country negotiated the selling of one of its overseas territories to the United States with Secretary of State William Seward. A principality named for the capital of this nation united it under the leadership of Ivan IV. For the point, name this country that has its capital at Moscow.

Answer: Russia

26. <RC> In one work by this author, the title figure's slave demonstrates that all knowledge is a form of recollection by solving a mathematical problem. Another of his works features the Allegory of the Cave and argues that philosopher-kings should rule city-states. This philosopher's student founded the Lyceum after he was taught by this philosopher at the Academy. For the point, name this author of *Meno* and the *Republic*, an ancient Greek philosopher who taught Aristotle and was taught by Socrates. (80)

Answer: Plato

27. <LB> One of these creatures is said to have invented golf at the Battle of Green Fields after decapitating an enemy. One member of this race is a gardener whose punishment for eavesdropping is accompanying his friend to Rivendell, where the Council of Elrond is held. A person of this type tricks trolls into the sunlight, causing them to turn to stone, and that character wins a riddle game against Gollum. Residents of Bag-End are this type of people, others of which include Peregrin Took and Samwise Gamgee. For the point, name this race of people created by J.R.R. and exemplified by Bilbo and Frodo Baggins.

Answer: Hobbits

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Round 3

1. <RC> The basin of this river contains large amounts of charcoal-rich “black earth,” and this river is called the Solimões before it reaches the Meeting of the Waters, where it joins with the Rio Negro. Before it flows past the island of Marajo in its delta, this river runs by the city of Manaus. The Casiquiare Canal connects this river to the Orinoco River in Venezuela, and it was named by Francisco de Orellana after a group of female Greek warriors. For the point, name this longest river in South America which runs through a rainforest of the same name.

Answer: Amazon River

2. <CS> These structures are moved around by SRPs and are normally measured in Svedberg units or described by a sedimentation coefficient. They contain sites known as E, P, and A sites and they are synthesized in a substructure found in the Nucleus, the nucleolus. They are found in the rough endoplasmic reticulum and also have a namesake RNA. These organelles are the site of translation and they help in the decoding of mRNA. For the point, name these organelles that assemble proteins based off of codons.

Answer: Ribosomes

3. <DD>A coffin in this novel ironically saves one character’s after he clings to it following an attack. In the opening of this novel, Father Mapple gives a sermon about Jonah and the fish, and an ambiguously religious man who worships a black baby idol attends it. The African boy Pip goes insane in this novel, and a captain in this novel offers a gold doubloon of the first one to spot the title creature. A Quaker man named Starbuck and the harpooned Queequeg serve on the *Pequod*, a ship central to this novel. For the point, name this Herman Melville novel about captain Ahab’s Search for the title White Whale.

Answer: Moby Dick

4. <JF> The Charter of Liberties was a document that preceded this document, and its Clause 29 is still in force. That clause established Due Process. One signer of this document was earlier excommunicated by Pope Innocent III, and its creation was prompted by the appointment of Stephen Langton as Archbishop of Canterbury. This document established the concept of Habeas Corpus, and it was signed by a king who lost the 2nd Barons’ War. For the point, name this English document that barons forced King John to sign at Runnymede.

Answer: Magna Carta

5. <PS> This object was said to have been constructed at Carduel, and a group named for it included two men who met the Fisher King. This object had one empty spot called the Siege Perilous that was reserved for one man who was given a shield with a cross of blood painted on it by King Evelake. This object was given to the father of one king's wife, Leodegrance, who later gave it to that king as a wedding gift. One man with a spot at this object was Pellinore who destroyed a sword that was legendarily pulled from stone. For the point, name this object that was created by Merlin and was used by King Arthur and his knights.

Answer: The Round Table

6. <CS> These particles undergo a process that is measured with the Klein-Nishina formula which is known as Compton Scattering. Represented as wavy lines in Feynman diagrams, they carry the electromagnetic force and their interaction with electrons in the photoelectric effect lead to their description as a duality. They are the most prominent massless particle in the standard model and they move at the constant c . For the point, name this particle that is the quanta of light.

Answer: Photons

7. <DD> • An opera by this man begins with a boy fainting after being chased by a snake, which is later killed by the three ladies. This composer who created characters like Tamino and Pamina, wrote an opera in which the title character is dragged to hell after an animated statue bellows his name. This man who wrote Don Giovanni composed 15 masses, 12 violin concertos, over 50 symphonies, and numerous other works throughout his lifetime. This composer left a mass for the dead unfinished at the time of his own death, his requiem in D minor. For ten points, name this prolific Salzburg-born composer of works like Eine Kleine Nachtmusik, Così fan tutte, and The Magic Flute.

Answer: Wolfgang Amadeus Mozart

8. <SG> This man often feuded with the Pinzón brothers, and he was aided by Guacanagari, a Taino chief. He became the governor of Hispaniola after the last of his four voyages, and this man saved himself from an Arawak attack by predicting an eclipse. This Genoese man appealed to Ferdinand and Isabella of Spain to provide him with three ships for his most famous endeavor. He sailed on the Nina, Pinta, and Santa Maria; for the point, name this Italian explorer who reportedly discovered the new world in 1492.

Answer: Christopher Columbus [or Cristobal Colon]

9. <RC> Adherents of this faith progress from the "pre-clear" to "clear" stage while traversing the Bridge to Total Freedom. Members of this religion believe in memories of traumatic events called "engrams," and they refer to the soul as a "thetan." "Auditing" is a spiritual cleansing process in this religion, whose members despise Xenu, an alien who dropped hydrogen bombs on humanity 75 million years ago. For the point, name this religion founded by L. Ron Hubbard, whose most famous members include rich actors such as John Travolta and Tom Cruise. (89)

Answer: Church of Scientology

10. (G\$) This politician's father used the term "Just Society" to encapsulate his vision for his nation. The video game *Deus Ex: Human Revolution* correctly predicted that this man would become his country's Prime Minister. Upon returning from a trip to China, this man earned the nickname "Little Potato." This politician's 2015 election victory prompted Stephen Harper to resign as head of the Conservative Party. For the point, name this son of Pierre and current leader of the Liberal Party and Canadian Prime Minister.

Answer: Justin Trudeau

11. <DD>A character in a novel by this author plays a game in which she must come up with silly phrases, before being insulted by the title character for her endless talking. That title character stresses about playing matchmaker for a woman named Harriet Smith who ultimately falls for a farmer. In another novel by this author, Charlotte Lucas, Caroline Bingley, and Mr. William Collins appear alongside Lydia, Charlotte, and Jane Bennet. For ten points, name this Victorian author of *Persuasion*, *Emma*, *Sense and sensibility*, and *Pride and Prejudice*.

Answer: Jane Austen

12. <SG> This man founded the Tolstoy Farm during his time as a young lawyer in South Africa. He encouraged the development of an economy based on homespun cotton cloth, and he led the Salt March to Dandi. This man developed his philosophy of satyagraha while opposing British rule in his home country, and he was assassinated on the eve of that country's independence. For the point, name this nonviolent leader who agitated for India's independence from Great Britain through civil disobedience and non-cooperation.

Answer: Mohandas Gandhi [or Mahatma Gandhi]

13. <RC> Marilyn Monroe, Humphrey Bogart, James Dean, and Elvis Presley appear in a parody of this painting titled *Boulevard of Broken Dreams*. A cash register can be seen in through a window at the left of this painting, which depicts an advertisement for Phillies five cent cigars. In this painting, a man in a white hat stands in the middle of a triangular table and waits on a woman and two men in hats in the title establishment. For the point, name this depiction of a diner on an empty street by Edward Hopper. (93)

Answer: Nighthawks

14. <IM> The activated form of this element is used to treat overdoses and poisonings. This element is the end product of the triple-alpha process. C4 and CAM are ways of accomplishing the fixation of this element. Buckminsterfullerenes, or buckyballs, contain this element. Common allotropes of this element include graphite and diamond. Its monoxide is lethal when it replaces hemoglobin in the blood, while its dioxide is a greenhouse gas whose solid form is dry ice. For the point, name this chemical element with atomic number 6 and symbol C.

Answer: Carbon

15. <RC> The Cordillera de Talamanca is a mountain range in the westernmost part of this nation, and the only section of the Pan-American highway that remains incomplete is named for this nation's Darién province. The Miraflores and Gatun Lakes are located within this country, and one structure in this country meets up with the Chagres River and uses a series of locks to facilitate travel from the Atlantic to Pacific Ocean. For the point, name this Central American country sandwiched between Costa Rica and Colombia, home to a very important namesake canal.

Answer: Panama

16. <CS> Famous patients of this man include Anna O., Little Hans, Rat Man, and Wolf Man. This author of *Moses and Monotheism* discussed one of his patients, Irma, in his most famous work. He described the life and death drives in his work *Beyond the Pleasure Principle* and this psychoanalyst was the first to postulate the Oedipus Complex. For the point, name this man who wrote the Interpretation of Dreams and said that the mind was composed of the Superego, Ego and Id. (82)

Answer: Sigmund Freud

17. <JF> One man arguing against this case stated "when a man argues with two beautiful ladies, he expects they'll have the last word". A 1989 case overturned a part of this case and allowed for the argument of "undue burden". The Hyde Amendment was passed after this case, and Henry Blackmun wrote the majority opinion for this case. It was filed on behalf of Norma McCorvey, and it was argued alongside Doe. V. Bolton. For the point, name this 1973 Supreme Court case which legalized Abortion.

Answer: Roe v. Wade

18. <LB> One poet from this country noted "if ever two were one, then surely we" in "To My Dear and Loving Husband," and wrote "Verses Upon the Burning of Our House." John Dos Passos wrote a trilogy of novels titled for this country, and a collection of poems titled for The Tenth Muse Lately Sprung Up in [this country] was written by Anne Bradstreet. A war in this country is the subject of the poems "Ode to the Confederate Dead" and "For the Union Dead." For the point, name this country home to poets like Henry Wadsworth Longfellow and Walt Whitman.

Answer: United States

19. <FW> The XYZ Affair occurred while this man was president which eventually led to the Quasi War. This man's wife Abigail urged him in a letter to "remember the ladies" and he was the first vice president of the United States. He passed the Alien and Sedition Acts while he was president to silence criticism and his son who had a similar name negotiated a treaty with Luis de Onís that ceded Florida to the United States. Thomas Jefferson, a rival of this man died on the same day as him and this man was a member of the federalist party. For the point, name this second president of the United States, the father of John Quincy.

ANSWER: John Adams [prompt on partial answer]

20. <IM> Daniel Dennett wrote about this man's Dangerous Idea. Alfred Wallace and this man competed with each other to publish results. In his *The Descent of Man*, this man stated that members of different races were all human. This man's five-year voyage on the HMS Beagle established him as an eminent geologist. This man's namesake finches are found on the Galápagos Islands. For the point, name this author of *On the Origin of Species*, known best for his contributions to the science of evolution.

Answer: Charles Darwin

21. <FW> This man led a raid on Columbus, New Mexico which led to a punitive expedition led by John Pershing. This man won the Battle of Zacatecas and before he was assassinated by his bodyguards, he said "Don't let it end like this. Tell them I said something." That assassination occurred at his hacienda in Hidalgo del Parral. Short story writer Ambrose Bierce disappeared while following this man to gain a first hand experience of the Mexican Revolution and this man lost the Battle of Celaya. The Carranza government that this man fought for eventually betrayed him. For the point, name this Mexican revolutionary who was a governor of Chihuahua.

Answer: Pancho Villa

22. <RC> Quetta is the capital of this country's Balochistan province, and this nation's province of Gilgit-Baltistan is home to the second tallest mountain in the world, K2. This nation's city of Peshawar is located near the Khyber Pass, which connects this nation to Afghanistan. Its city of Karachi is located near the point where the Indus River flows into the Arabian Sea, and it contests ownership of Kashmir with India, its eastern neighbor. For the point, name this Asian country with capital at Islamabad.

ANSWER: Pakistan

23. <FW> This deity was trapped in a coffin by their brother and thrown into a river, and this deity was known as "The Foremost of the Westerners." A djed column contained this deities body and this deity's body was dismembered by his brother who wanted to take his throne. This deity was reassembled by his wife who brought him back to life so she could become pregnant with his son, Horus. This deity is depicted with green skin and the beard of a pharaoh. He was associated with the flooding of the Nile and part of this god's body was eaten by a fish after he was dismembered. For the point, name this brother of Set, the Egyptian god of death.

Answer: Osiris

24. <PS> On the second day of this holiday adherents begin counting the Omer, the fifty day period between this holiday and Shavuot. In Israel, this holiday is only performed for 7 days, and Samaritans go on a pilgrimage to Mount Gerizim to celebrate this holiday. The youngest child in the family asks the "Ma Nishtana" or the Four Questions during this holiday, and children look for a half piece of matzo called the afikoman to earn rewards after the seder meal during this holiday. For the point, name this Jewish holiday that commemorates their freedom from Egypt. (96)

Answer: Passover [or Pesach]

25. <DD> The protagonist of this novel sails across the sea to a jungle environment and intimidates the titular beings. While playing with his new friends, the protagonist sees how they “roared their terrible roars and gnashed their terrible teeth and rolled their terrible eyes and showed their terrible claws.” After feeling lonely and homesick, the protagonist, who wears a yellow crown and white wolf costume, travels back home to discover a hot supper waiting for him. This book was written and illustrated by Maurice Sendak. For ten points, name this children’s book about Max, who is the king of the titular untamed beasts.

Answer: *Where the Wild Things Are*

26. <DD> • These works were composed by a man who was nicknamed “the red priest” for his work with a girls choir. These violin concertos were published in 1725 along with 8 others in the collection *The Contest Between Harmony And Invention*. A barking dog, flowing stream, rumbling thundercloud, and buzzing fly can all be heard among these pieces, along with distinctly characterized calls of birds. For ten points, name this set of compositions written to reflect and evoke scenes of the titular times of the year.

Answer: *The* *Four Seasons*

27. <IM> The term “anisokont” refers to cells with unequal lengths of these structures. They contain L, P, and MS ring complexes. In bacteria, they are formed by a type III secretory system. Dyneins are found in these organelles, which are anchored by basal bodies. Their axonemes come in a 9+2 arrangement of microtubules. These structures are longer than cilia. For the point, name these structures which aid in cellular motion.

Answer: *Flagella*

Detroit Catholic Central Shamrock Quiz Bowl Camp
Middle School Tournament

Round 4

1. <FW> This item is said to have been able to level mountains and this item was created after a god bet their head that this item's creators, Eitri and Brokkr, could not make an item more beautiful than Gungnir. A flaw in the handle of this item meant that it could only be used with one hand, and the owner of this item disguised himself as a woman to get it back. One translation of this item's name means "to grind" and this item kills the Midgard serpent during Ragnarok. For the point, name this weapon in Norse mythology that is wielded by the thunder god Thor.

Answer: Mjolnir

2. <DD> One character created by this author becomes violently ill and vomits upon seeing that her childhood home has been turned into an ice cream parlor. That semi-autobiographical plot point comes from this author's hometown of Monroeville. The garbage collector Zeebo scoops up a dead dog after a father shoots it in a novel by this author, just before that man explains the title concept. In a book published just before her death, this author explained how a town lawyer was found to be going to white supremacist meetings. For ten points, name this author who created characters like Dil, Jem, and Scout in To Kill A Mockingbird.

Answer: Harper Lee

3. <JF> One of these events led to the Lambing Riots when Chinese immigrants flooded into Burrigong. After George A. Custer led an expedition into the Black Hills, one of these events occurred. Another one of these events took place in the Yukon territory. James Marshall helped spur one of these actions at Sutter's Mill. During one in California, many people arrived through the Gila River Trail. Participants in one of these events were known as Forty Niners. For the point, name this event which happens when the namesake element is found in an area, leading to prospectors flooding into the area.

Answer: gold rushes

4. <RC> This state's Lake Itasca is considered the source of the Mississippi River, and at the Lake of the Woods, this state's Northwest Angle juts into Ontario. The St. Louis River flows past this state's city of Duluth and into Lake Superior near this state's border with Wisconsin. Rochester and Minnetonka are two cities within this state, and the Red River of the North separates this "Land of 10,000 Lakes" from North Dakota to its west. For the point, name this state with capital at St. Paul, whose largest city is Minneapolis.

Answer: Minnesota

5. <IM> The world's largest quarry of this rock is in Rogers City, Michigan. Belsazar Hacquet was the first geologist to distinguish this rock from dolomite. Travertine, a form of this rock, was used for the construction of The Colosseum. When this rock is eroded, it forms karst topography. Coquina and tufa are types of this rock, which makes up the Lower Florida Keys. For the point, name this sedimentary rock, made mostly of calcium carbonate, which forms underground caves.

Answer: Limestone

6. <RC> This figure was accused of kidnapping two people during the Dirty War, and in his youth he worked as a nightclub bouncer. He currently lives in the Casa Santa Marta, and during his trip to America he gave a controversial speech about Junipero Serra. He wrote *Laudato si'* on the issue of global warming, and during a plane trip to Rio de Janeiro, this Argentinian exclaimed "who am I to judge?" while discussing the issue of gay priests. For the point, name this successor of Benedict XVI, the current pope.

ANSWER: Pope Francis [or Jorge Mario Bergoglio]

7. <JF> Black Sash Societies here helped plan protests in this country. One political party that was active in this country was the National Party. Security forces from this nation jailed, beat, and killed journalist Steve Biko. The United States had a policy of Constructive Engagement which benefited this country. The Soweto Massacre was carried out in this country, and one leader of this country was imprisoned on Robben Island for 27 years. For the point, name this African country whose leaders have included F.W. de Klerk and Nelson Mandela.

Answer: South Africa

8. <GD> This author created the character Herbert Pocket, who helps the protagonist learn to become a gentleman in one work. In that same work, the convict Abel Magwitch saves up money to help the orphan "Pip." In another work by this author set during the French Revolution Madame DeFarge plans to kill Lucie Mannette and her lover Charles Darnay until a nearly identical Sydney Carton saves him from the guillotine. For the point, name this author of *Great Expectations* and *A Tale of Two Cities*.

Answer: Charles Dickens

9. <RC> This archipelago's Pinta Island was the birthplace of an animal named Lonesome George. Islands in this archipelago include Santa Cruz, Santiago, and Isabela. Peter and Rosemary Grant are known for their work on this island chain, which is home to the only species of marine iguana. The HMS Beagle transported Charles Darwin here to study the many varieties of finches found in this archipelago, which is situated 563 miles off the coast of Ecuador. For the point, name this South American island chain home to a namesake type of penguin and tortoise.

Answer: Galapagos Islands

10. <PS> One of these campaigns featured a massacre of Jews in Mainz and Worms, and that same one concluded with the Battle of Ascalon. The Council of Piacenza saw one man asking for aid which prompted one of these, and the Alexiad chronicled the first of them. Louis VII of France and Conrad III of Germany led the failed second one of these, and Frederick Barbarossa drowned on his way to join the third of them. For the point, name these nine Christian military campaigns to retake the Holy Land, the first of which legendarily began with a "Deus Vult" chant.

Answer: the Crusades

11. <NP> Abu Qatada, a Jordanian cleric implicated with several al-Qaeda branches found throughout Europe, was deported during this politician's tenure as Home Secretary. Andrea Leadsom conceded to this politician in a 2016 Election following two rounds of voting. After the disastrous 2017 general elections for this politician's One-nation Conservatism, she was forced to broker an alliance with Northern Ireland's Democratic Unionist Party. For the point, name this Prime Minister who recently executed Article 50 to withdraw the United Kingdom from the European Union.

ANSWER: Theresa May

12. <IM> A similar phenomenon to these is depicted on National Weather Service analyses as an orange line with scallops facing into the moist sector and is sometimes called a Marfa one. That phenomenon is a dry line. In the Bergeron classification, the second letter refers to the type of this phenomenon. Occluded ones usually form around mature low-pressure areas. Stationary ones are non-moving and are marked on weather maps with alternating red half-circles and blue spikes pointing in opposite directions. For the point, name these boundaries separating two masses of air of different densities, which come in cold and warm types.

Answer: Fronts

13. <NP> Debate on whether a "hard" or "soft" type of this event will occur is still ongoing as former Conservative Shadow Home Secretary David Davis represents one side through the newly created DExEU Department and EU Commission President Jean-Claude Juncker represents the other. Former Prime Minister David Cameron resigned shortly after the June 2016 referendum found a slight majority supporting this event. For the point, name this process that was officially initiated in March 2017 by executing Article 50 of the Treaty of Lisbon which may see the United Kingdom withdraw from the European Union.

ANSWER: Brexit

14. <RC> After killing three of these creatures, Apollo was forced to serve Admetus for one year, and another of these beings killed Acis over his love for Galatea. During the Titanomachy, Zeus killed Campe and freed the Hecatonchires and these creatures. After claiming his name was "nobody," Odysseus blinded one of these creatures, and three of them named Brontes, Steropes, and Argos forged the thunderbolts of Zeus. For the point, Polyphemus belonged to what race of creatures from Greek mythology who had only one eye?

Answer: Cyclopes [or Cyclops]

15. <PS> This man, who sent the Great White Fleet on a world tour, earned a Nobel Peace Prize for negotiating the Treaty of Portsmouth. During one speech, this man was shot by John Schrank, and in one election this man ran on the concept of "New Nationalism." This coiner of the term "hyphenated Americans" led a 1913 expedition to the "River of Doubt" the site of a river now named for this man. He served as Police Commissioner of the NYPD before leaving to seek higher offices. For the point, name this president who took over after McKinley's assassination and was defeated in the election of 1912 by Woodrow Wilson.

Answer: Theodore Roosevelt [or Teddy Roosevelt; prompt on Roosevelt alone]

16. <RC> One sect of this faith collects its scriptures in the Pali Canon, and monks in the religion belong to a community called sangha. In one sermon, its founder talked about dukkha as the first of the Four Noble Truths, and members of this faith practice the Eightfold Path. Bodhidharma founded one sect of this religion which relies on meditation and koans such as “What is the sound of one hand clapping?” For the point, name this predominantly Asian religion with sects such as Theravada, Mahayana, and Zen, a faith founded by Siddhartha Gautama. (93)

Answer: Buddhism [accept Theravada Buddhism, Mahayana Buddhism, or Zen Buddhism before mention; prompt on partial answer]

17. <LB> This author wrote “each man kills the thing he loves” in his poem “Ballad of Reading Gaol.” “All art is quite useless” ends the preface to this author’s novel about the painter Basil Hallward and the title character, Dorian Gray. Mrs. Erlynne lies about borrowing the title object in *Lady Windermere’s Fan*, a play by this author who described “Bunburying” his most famous work. In one of his plays Algernon Moncrieff and Jack Worthing both take the title first name while trying to court Cecily Cardew and Gwendolen Fairfax. For the point, name this Irish playwright of *The Importance of Being Earnest*.

Answer: Oscar Wilde

18. <NP> Though he is not Michelangelo, Pope Julius II commissioned this artist to paint the *Sistine Madonna* as well as a series of rooms that would become the papal palace library. One of his paintings depicts doctors of the Church debating the concept of Transubstantiation, and that painting is located in this artist’s Stanza della Segnatura. The most famous work by this artist is located across from his *La Disputa* and focuses on Greek philosophers like Plato and Aristotle who debate with each other in the title institution. For the point, name this artist of *The School of Athens*. (98)

Answer: Raphael

19. <IM> The JWST, scheduled to be launched in 2019, will be located near the Earth-Sun L2 Lagrangian point and is named after this organization’s third administrator. In December 2017, this institution published the farthest images ever taken in space, breaking an earlier record set by the “Pale Blue Dot” image taken almost exactly 28 years earlier. This institution’s InSight lander is designed to study the interior and subsurface of Mars. New Horizons was launched as a part of this organization’s New Frontiers program. For the point, name this American space program which sent Neil Armstrong to the Moon.

Answer: NASA

20. <IM> This team was established in 1933 as a replacement for the Frankford Yellow Jackets. Under the leadership of Norm Van Brocklin and Chuck Bednarik, this team became the only one to defeat Vince Lombardi’s Green Bay Packers in the playoffs. More recently, this team has been led by coaches Andy Reid and Chip Kelly. After quarterback Carson Wentz tore his ACL in the 2017, Nick Foles became the first quarterback to start and win a Super Bowl since his opponent Tom Brady did so in 2001. For the point, name this NFL team based in Philadelphia.

ANSWER: Philadelphia Eagles

21. <NP> One fountain in this city reopened in November 2015 following two years of restoration work sponsored by the fashion label Fendi. That fountain is prominently featured in Fellini's *La Dolce Vita* and includes sculptures designed by Pietro Bracci, Nicola Salvi, and Giuseppe Pannini. Another fountain located in this city's Piazza Navona features depictions of the Nile, the Danube, the Ganges, and the Rio de la Plata surrounding an ancient Egyptian obelisk. For the point, name this Italian city which houses the Trevi Fountain, the Fountain of the Four Rivers and the Colosseum. (92)

Answer: Rome

22. <GD> This novel's title character is caught in between a feud between the Grangerford and Shepherdson families. While traveling, this novel's central characters meet the con artists that refer to themselves as the Duke and the Dauphin. After hearing that the Widow Douglas might sell the slave Jim, this novel's title character escapes with him down the Mississippi River. For the point, name this Mark Twain novel about the best friend of Tom Sawyer.

Answer: Huckleberry Finn

23. <IM> GPCRs, which lead to activation of adenylate cyclase and cAMP signaling, link to namesake "G" ones. Dirigent ones dictate the stereochemistry of a compound synthesized by other enzymes. SNAREs are ones that mediate membrane fusion. One type of them was first isolated the jellyfish *Aequorea victoria* and is referred to as the green fluorescent one. Structural ones include collagen and elastin. For the point, name these large macromolecules consisting of one or more long chains of amino acids.

Answer: Proteins

24. <IM> This element is used in a fungicide called the Bordeaux mixture. This element's sulfate forms a blue crystalline pentahydrate, the most familiar compound of this element in the laboratory. In Benedict's test, this element's oxide indicates the presence of reducing sugars. This element is a constituent of the blood pigment hemocyanin, which transports oxygen throughout the bodies of some invertebrate animals. In a flame test, this element produces a blue-green color. For the point, name this element which combines with tin to form bronze and with chemical symbol Cu.

Answer: Copper

25. <JF> This city was sacked by the Slavs in 582 CE. Its General Cleon was killed at the battle of Amphipolis. After losing one war, this city was ruled by the Thirty Tyrants. Thrasybulus led this city to battle at the battle of Cyzicus. Alcibiades led an ill-fated journey from this city to explore Sicily and Syracuse. This city was led by men such as Pericles, Solon, and Draco. For the point, name this Greek city, a rival of Sparta.

Answer: Athens

26. <RC> The main character of this musical sleeps with a bottle of elixir under her pillow. In this musical, Dr. Dillamond is carried away from Shiz University, whose headmistress is Madame Morrible. The central figure of this work laments her inability to stop bringing misfortune in the song “No Good Deed.” Fiyero sings “Dancing Through Life” and “As Long As You’re Mine” in this work, and the main character sings “Defying Gravity” while holding onto a broom. For the point, name this musical about the Glinda and Elphaba, the “Witch of the West.” (92)

Answer: *Wicked*

27. <G\$> In one of this author’s poems, he describes “all that we see or seem” as being “but a dream within a dream.” Another poem by this author describes the title objects keeping “time, time, time in a sort of Runic rhyme” and describes them as swinging, ringing, and jingling. This author’s most famous poem describes the title bird perched upon a “pallid bust of Pallas” and opens with the line “Once upon a midnight dreary, while I pondered, weak and weary.” For the point, name this author of “The Bells” and “The Raven.”

Answer: Edgar Allan Poe

Detroit Catholic Central Shamrock Quiz Bowl Camp
Middle School Tournament

Round 5

1. <IM> This man's paper on the Entscheidungsproblem led to his idea of computable numbers. A hypothesis named for Alonzo Church and this man states that no possible computing device can be more powerful than this scientist's namesake machine, a device which can theoretically simulate any computation. In his paper *Computing Machinery and Intelligence*, this scientist introduced his namesake test. For the point, name this English cryptanalyst who led efforts to break the Enigma Code.

Answer: Alan Turing

2. <GD> Black cap wearing characters in this novel let a signal fire go out. One character, Percival Madison cannot remember his own name at this novel's end. A pair of twins who discover the corpse of a parachutist are referred to collectively as Samneric. The title figure of this novel refers to a decaying pig's head which "expands like a balloon." Characters in this novel who hold a conch shell are allowed to speak. For the point, name this William Golding novel which features the characters, Piggy, Ralph, and Jack, about a group of boys stranded on an island.

ANSWER: Lord of the Flies

3. <SG> This man claimed that he could not enjoy the Fourth of July in a 1852 speech delivered in Rochester. He was the only African American to attend the Seneca Falls Convention where he gave a passionate argument for women's suffrage. He wrote an 1855 autobiography titled "My Bondage and My Freedom" and he supported the passage of the fifteenth amendment. For the point, name this former slave, abolitionist, and orator who detailed his escape from slavery and founded The North Star newspaper.

Answer: Frederick Douglass [or Frederick Augustus Washington Bailey]

4. <RC> Note: Two answers required. The earliest "cradle of civilization" was located between these two geographical entities, both of which combine to form the Shatt-al-Arab. That confluence of these two bodies forms the northern border of Kuwait, and these two rivers approach each other but do not meet at the city of Baghdad. The historical region between these two rivers was called Mesopotamia. For the point, name these two rivers that originate in Turkey and run through Iraq before flowing into the Persian Gulf.

Answer: Tigris and Euphrates [prompt on partial answer]

5. <RC> Pierre L'Enfant designed the layout of this city, for which Benjamin Latrobe and James Hoban designed two major buildings. The historic Dumbarton Oaks estate is located in this city, which lies at the confluence of the Anacostia and Potomac Rivers. Georgetown is one neighborhood of this city. This city's National Mall is home to eleven Smithsonian museums, and it was formed from land donated by Maryland and Virginia. For the point, the Capitol Building and the White House are found in what capital of the United States?

Answer: Washington, District of Columbia [or Washington, District of Columbia; or DC]

6. <RC> During the Cattle Raid of Cooley, a goddess of this type takes the form of an eel, a wolf, and a heifer before being defeated by Cu Chulainn. A Hindu god of this type rides a peacock and loses a contest to his brother Ganesha. In addition to the Morrigan and Kartikeya, one god of this type was served by Cadmus for eight years before he gave Cadmus his daughter Harmonia, who was born as a result of that god's affair with Aphrodite. For the point, name this type of deity exemplified by Ares, who loves weapons and combat.

Answer: war deities [or war gods; or war goddesses; accept synonyms such as battle, combat, etc. in place of war]

7. <JF> This group can trace its foundation to Jordanian Abu Musab al-Zarqawi. Earlier in its history, this group claimed the city of Ramadi as its capital. In 2013, this group launched attacks on the prisons of Taji and Abu Ghraib to free some of their captured fighters. It besieged the mountain of Sinjar and the yazidi refugees hiding upon it. It claimed responsibility for the crash of Metrojet Flight 9268, and it publishes the magazine Dabiq. Boko Haram swore allegiance to this group in May of 2015. This group came to international notoriety after it publicly executed reporter James Foley in August of 2014. For the point, name this terrorist group in the middle east, a group which claims to be a caliphate of the Levant area.

ANSWER: ISIS

8. <FW> This man was motivated to carry out his most famous action by the sacking of Lawrence Kansas by pro-slavery forces. This man fought the Battles of Blackjack and the Battle of Osawatomie and three of his thirteen children helped him in his attacks. This man vowed to destroy slavery after Elijah P. Lovejoy was murdered by a proslavery mob and this man was on his way to fight proslavery forces in Kansas when he stopped at an anti slavery convention in Albany. He carried out the Pottawatomie Massacre in Kansas and he invited Harriet Tubman and Frederick Douglass to participate in his most famous action. For the point, name this abolitionist who was captured by Robert E. Lee during his raid on Harpers Ferry.

Answer: John Brown

9. <G\$> One manuscript containing this poem also contains a translation of the Gospel of Nicodemus and was partially damaged by fire at the Cotton library. That manuscript is known as the Nowell Codex. One character in this poem, a coast guard, comments that he has never "seen a mightier man-at-arms" than the protagonist. The protagonist famously loses a swimming match against his countryman Breca. Unferth gives the sword Hrunting to the main character of this poem before he sets off to fight the mother of the demon Grendel. For the point, name this Old-English epic poem that tells the adventures of a Geatish warrior king.

ANSWER: Beowulf

10. <IM> Wilkinson's catalyst is used in a reaction named for this element. Steam reforming combines methane and water to produce syngas, a mixture of carbon monoxide and this element's gas. Fuel cells produce energy from this element. This element's peroxide is degraded by catalase and is used to bleach hair. This element's namesake bonds are responsible for the high specific heat of water. For the point, name this lightest element with chemical symbol H.

Answer: Hydrogen

11. <RC> This ballet contains a “Waltz of the Snowflakes” and a “Waltz of the Flowers,” and it was based on a story by E.T.A. Hoffman. One scene from this ballet features dances from Spain, China, Arabia, and Russia and is set in the Land of Sweets, while another scene sees a girl defend the title character by throwing her shoe at the Mouse King. The title figure is a gift from Herr Drosselmeyer in this ballet, which features the famous “Dance of the Sugar Plum Fairy.” For the point, name this Tchaikovsky ballet about Clara’s Christmas toy coming to life. (101)

Answer: *The Nutcracker*

12. <LB> Robert Barro claimed that a change in these policies does not affect consumer behavior, which is called Ricardian Equivalence. According to the Laffer Curve, lessening these things can actually increase government revenue. Negative externalities are resolved by the “Pigouvian” type of these policies which have an *ad valorem* or “value-added” variety. When these entities affect trade, they are called tariffs. For the point, name these charges imposed by the government such as ones on property or income. (77)

Answer: taxes

13. <PS> After this figure died, their blood entered the Red Sea and caused the creation of coral reefs another result of that death was the birth of Chrysaor, the father of Geryon. Unlike this figure’s sisters, Stheno and Euryale, this person was born a mortal. A remnant of this figure caused the death of Agenor’s army of two hundred, and one epithet of this figure was “fair-cheeked.” She was raped by Poseidon in the Temple of Athena, and her decapitated head was mounted onto the Aegis shield. For the point, name this snake haired gorgon that was the mother of Pegasus and killed by Perseus.

Answer: Medusa

14. <FW> The Continental System was created by this man, and attempted to make Great Britain surrender by denying them any trade. This man was born in a former possession of the Republic of Genoa and the 100 Days is the name given to the amount of time he ruled after returning from exile in Elba. This man won the Battle of Austerlitz, and in the following Treaty of Pressburg forced the dissolution of the Holy Roman Empire. The Congress of Vienna was hosted following the defeat of this man and he was finally exiled to St.Helena. For the point, name this French emperor from Corsica who was defeated at the Battle of Waterloo.

Answer: Napoleon Bonaparte

15. <IM> In beta minus decay, this particle and an antineutrino are released from a nucleus. When this particle collides with a positron, both particles can be totally annihilated, producing gamma ray photons. J. J. Thomson and his team identified this particle in 1897. Electronegativity is the ability of an atom to attract this particle, whose charge was measured by physicist Robert Millikan his 1909 oil-drop experiment. For the point, name this negatively charged subatomic particle.

Answer: Electrons

16. <GD> At the start of this novel, one character is distracted by a salmon hatchery and a pilot misreads directions. The father of the protagonist of this novel brings home a pale-eyed baby each night. After discovering what it means to be “Released”, this novel’s protagonist runs away with the baby “Gabe.” This novel’s protagonist becomes the “Receiver of Memories” which allows him to see colors and recall all human memories from before his society converted to “Sameness.” For the point, name this dystopian novel about Jonas written by Lois Lowry.

ANSWER: *The Giver*

17. <NP> This artist created self-portraits depicting himself as a Polish Nobleman and with Two Circles, and this painter also created numerous painting of his son Titus and his wife Saskia. An open text book can be found in the lower right corner of one of this artist’s paintings commissioned by the local Surgeon’s Guild. This artist’s most famous work shows the militia of Frans Banning Cocq and is named because its dark varnish made it look like a nocturnal scene. For the point, name this Dutch realist known for paintings such as *The Anatomy Lesson* and *The Night Watch*. (98)

Answer: Rembrandt van Rijn

18. <JF> Members of this group protested outside of London Heathrow Airport, and blocked the roads into it. A year later, this group protested after the death of Edson de Costa, also in London. Supporters of this group took over the stage while Bernie Sanders was giving a speech. Ben Carson called this movement “silly” in an August 2015 quote. Two supporters of this movement confronted Hillary Clinton over her comments about “super-predators” she made in 1996. One leader of this movement is Deray Mckesson. This group formed after its namesake hashtag trended on twitter after the acquittal of George Zimmerman. For the point, name this movement which protests police brutality against African Americans.

ANSWER: Black Lives Matter

19. <NP> As the daughter of the founder of this country’s United Socialist League, Delcy Rodriguez was recently voted in as the President of this country’s Constituent National Assembly. That assembly which was reinstated following a controversial July 2017 election has been denounced by the European Union, Canada, and the United States. For the point, name this South American country currently led by President Nicolas Maduro who has seen recent unrest in this country lead to its Supreme Court being attacked by a stolen police helicopter.

Answer: Venezuela

20. <JF> this man’s son was killed by Natives near Blue Licks, and this man was employed by Richard Henderson and the Transylvania Company. This man’s life was saved from the Shawnee by Simon Kenton. This explorer helped create the Wilderness Road through the Cumberland Gap. This man led his family to create the first incorporated county in Kentucky. For the point, name this American explorer who wore a namesake raccoon hat.

Answer: Daniel Boone

21. <IM> A 2003 one, nicknamed Champagne, is believed to have been caused by the collision of two white dwarfs. A near-Earth type of this phenomena has been proposed as the cause of the Ordovician-Silurian extinction. The earlier recorded one was viewed by Chinese astronomers in 185 AD. These phenomena result from a white dwarf exceeding the Chandrasekhar limit. The Type 1a of these phenomena show strong ionized silicon absorption lines and can be used as a standard candle. For the point, name these luminous stellar events.

Answer: Supernovae

22. <GD> At the end of the novel in which this character appears, he travels to the Arctic Circle pursuing the murderer of Henry Clerval. This scientist studied chemical processes and decay at Ingolstadt University. This character's most famous creation is unnamed in the original work in which he appears, but is often referred to as "fiend", "devil", "thing", and "ogre." This character's love interest, Elizabeth Lavenza, is killed on her wedding night by a creature brought to life by this man. For the point, name this character who sets loose the title monster in a novel by Mary Shelley.

ANSWER: Victor Frankenstein

23. <RC> While he was with Pirithous in one of these places, Theseus accidentally sat down in the Chair of Oblivion and had to be rescued by Heracles. Xolotl guided the Aztecs to one of these locations called Mictlan, and the Bat House and the Cold House are found in one called Xibalba. Cerberus guards one type of this location, and after eating six pomegranate seeds, Persephone was forced to stay in that one of these places for half of the year. For the point, name this type of place where people go after they die, such as the one ruled by Hades.

Answer: underworlds [or hells; or afterlife; or Hades; accept anything involving a realm of the dead before "die" is read]

24. <IM> The first published reports of X-rays diffraction patterns of this molecule used analyses based on Patterson transforms that provided a limited amount of structural information for oriented fibers of this molecule. A sequence of this molecule is referred to as "sense" if its sequence is the same as the of a mRNA copy that is translated into protein. It exists in A, B, and Z forms, although only its B and Z forms have been directly observed in functional organisms. This molecule was first isolated by Friedrich Miescher. This molecule's structure was identified by James Watson and Francis Crick. For the point, name this long polymer made from nucleotides.

Answer: DNA

25. <RC> This work, which is housed in Milan's Santa Maria delle Grazie, once had the Sforza coat of arms above it because it was commissioned by Ludovico Sforza. Towards the left of this painting, one figure knocks over a salt cellar and holds a bag of silver in his hand, and a very feminine figure in this painting is thought to be John. The central figure, who wears a blue sash, sits in front of three windows and is surrounded by six people on either side. For the point, name this painting by Leonardo da Vinci depicting the final meal Christ had with his Apostles. (104)

Answer: The Last Supper

26. <FW> A famine caused by locusts occurred due to this man's effort to kill sparrows in his Pest Extermination Campaign. This man led the failed Autumn Harvest Uprising which led to his fleeing to the Jinggang Mountains and this man and his troops went on the Long March to escape the troops of Chiang Kai Shek. The Hundred Flowers campaign under this man allowed people to voice their opinions on the communist government and his Little Red Book was distributed during the Cultural Revolution. The government he formed caused the previous government to flee to Taiwan. For the point, name this Chinese communist leader who led China during its Great Leap Forward.

Answer: Mao Zedong

27. <GD> In this novel, the Robert Frost poem, "Nothing Gold Can Stay" is recited to Johnny in the Windrixville Church. This novel's protagonist is nearly drowned when he and his friend are attacked by Randy Anderson and Bob Sheldon. During that attack, the protagonist's friend stabs and kills a rich kid. After being injured in a fire in this novel, Johnny tells Ponyboy to "stay gold" before dying. For the point, name this S. E. Hinton novel about the rival "Greasers" and "Socs."

ANSWER: The Outsiders