

by Bill Tressler

with thanks to Alex Dzurick, Bern McCauley, and the Great Valley Quiz Team

Tossups

1. **Some claim the first example of this literary form is a 13th century Thomas Aquinas prayer. There are 112 of these in Edward Lear's *Book of Nonsense*. Ogden Nash is the purported author of one of these that starts "A wonderful bird is the (*) pelican / His bill can hold more than his belly can". The original text of one of these said a man from Nantucket kept all his cash in a bucket. Their rhyme scheme is A-A-B-B-A. An Irish county gives us the name of—for 10 points—what poetry with five lines?**

answer: **limerick** (do not accept "poem", as they existed well before the 13th century)

2. **Strecker synthesis forms these compounds from an aldehyde or ketone. One of these named BMAA is a neurotoxin, and the creeping indigo plant is harmful because the indospicine example interferes with liver function. Those important to the body are catabolized, producing excess ammonia. Some of the (*) essential ones humans must obtain from food include tryptophan, valine, and lysine. For 10 points—give the term for these protein building blocks that can contain carboxylic acid groups.**

answer: **amino acids**

3. **R. M. Renfield escapes from a mental hospital to meet this character who conducts real estate transactions with Peter Hawkins. He sails to England aboard the *Demeter*, and that ship's crew gradually disappears. One man who visits him in the Carpathian Mountains says this character has (*) ice cold hands, pointed pale ears, and "peculiarly sharp white teeth". Quincey Morris and Jonathan Harker uses knives on this character as he attempts to return to Transylvania. Bram Stoker wrote about—for 10 points—what vampire?**

answer: Count **Dracula**

4. **On the domain where it is defined, the Maclaurin series of this function starts with coefficients 1, 1/3, 2/15, and 17/315. Aircraft descent rate equals ground speed times this function of the craft's flight path angle. Its derivative equals secant squared, and it has a range of all reals, and a domain (*) excluding odd multiples of pi over two. This term is also used for a line that "just touches" a curve at one point. For 10 points—name this trigonometric function defined as opposite over adjacent, the last part of the mnemonic "soh cah toa".**

answer: **tangent**

5. **The artist of this 1942 work said he unconsciously painted loneliness. A December 2014 *JAMA* cover redid this work showing training residents standing around a medical station, and Gottfried Helnwein did a parody with Humphrey Bogart and Marilyn Monroe. This painting includes an abandoned water glass, coffee mugs, (*) sugar jars, and napkin holders, and at the center is a soda jerk dressed in white attending to three patrons on counter stools. A Greenwich Village diner inspired—for 10 points—what Edward Hopper work about people awake during dark hours?**

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6. Louisiana became the 18th state in this year that saw the February 7th earthquake destroying New Madrid, Missouri. Vice President George Clinton died in this year and Elbridge Gerry was elected the successor. The *USS Constitution* earned the name (*) "Old Ironsides" during an August battle. U.S. forces also raided Gananoque [GAN-on-AH-kwah], Ontario in this year but lost the Battle of Queenston Heights to the British. For 10 points—name this year that saw the start of a conflict known as "Mr. Madison's War", a year in the 1800s.

answer: 1812 (accept War of 1812 after "USS Constitution")

7. This country's World Heritage Sites include Safranbolu, an ancient trading post, and Hattuş, the capital of a 13th-century BC empire. Its mountains include the Pontic range, and Erciyas Dag is in its Taurus Mountains. The Simav and Nilufer Rivers flow into its Sea of (*) Marmara. This country's states of Bitlis and Mardin have Kurdish majorities, and its central portion is known as Anatolia or Asia Minor. Ankara and Istanbul are cities in—for 10 points—what country whose medieval traders may have sold large birds now eaten at Thanksgiving?

answer: Republic of Turkey or Türkiye Cumhuriyeti

8. This character appoints Tik-Tok as superintendent of the scalawagon factory. The initials of six middle names and the last name of this person spell "pinhead". This character born in Omaha chooses to appear as a lovely lady, a large beast, and a ball of fire to visitors, but ultimately admits he is a humbug. He gives citizens (*) glasses so that they see everything as green, and uses silk, glue, and a clothes basket to build a traveling balloon Toto fails to board. For 10 points—name this L. Frank Baum character sought by Dorothy in the Emerald City.

answer: The Wizard of Oz or Oscar Diggs (or Oscar Zoroaster Phadrig Isaac Norman Henkle Emmannuel Ambroise Diggs; accept any underlined name)

9. In the "Chance for Peace" speech from the Statler Hotel, this man said military spending carried a cost of fewer schools and hospitals. He appointed Potter Stewart and John Harlan to the Supreme Court. As a lieutenant colonel, this man was in the 1919 Motor convoy, whose travel difficulties later led him to propose an (*) Interstate Highway System. While president of Columbia University, he published his 1948 memoir *Crusade in Europe* and then served as Supreme Commander of NATO. For 10 points—name this five-star general, a 1950s president.

answer: Dwight D(avid) Eisenhower

10. In 2010 the Supreme Court said some of these impartations by officer Jeff Quon were not private when done using workplace-issued objects. In 2014 Malaysian Airlines was criticized for using this method to tell passengers' families rescue efforts had stopped. Massachusetts teen Michelle Carter was found (*) guilty of manslaughter after using these to encourage her boyfriend to go through with carbon monoxide poisoning. Most states ban drivers from using—for 10 points—what method of communication typical on mobile devices?

answer: texting or text messages (or SMS or Short Message Service; prompt on "messaging", "electronic communication", or similar answers, but do not accept "email")

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11. This profession titles a 1932 Nunzio Malasomma film. Emilia Marty has this career in a Leoš Janáček [ya-NAH-chek] work, and as does Floria Tosca in a Guiseppi Verdi work. This was a profession of Marian Anderson, who appeared at the Lincoln Memorial on Easter Sunday 1939. Farinelli and Pacchierotti were famous 18th century (*) castrati in this profession, and two modern greats are Luciano Pavarotti and Plácido Domingo. For 10 points—give this type of person who might appear at the Kennedy Center or the Metropolitan Opera House.

answer: opera singer (accept La cantante dell'opera)

12. One room described in this novel is where pike-men and spade-men lose toes to sharp cutting instruments. In this work's epilogue, the *Rachel* rescues a character clinging to a coffin. A chapel in this novel contains plaques honoring (*) maritime deaths, and is where Father Mapple preaches about Jonah's ordeal with an aquatic animal. Other characters in this work are the first mate Starbuck and the harpooner Queequeg. Herman Melville wrote—for 10 points—what work in which Captain Ahab chases a whale?

answer: Moby Dick

13. The Nusselt number is a ratio comparing two methods by which this scientific quantity is shifted. The Carnot [car-NOH] cycle gives an upper limit on the efficiency of converting this into another quantity expressible in ergs. If the universe reaches a state of maximum entropy, it may experience a "death" known by this term. (*) Sinks are devices that dissipate this, such as the devices with fans on computer processors. Conduction and convection are methods of transferring—for 10 points—what energy that moves from hotter to cooler systems?

answer: heat (energy) (prompt on "energy"; do not accept "thermal energy" or "temperature")

14. One person who held this position was allegedly mistreated with the Anagni slap and died a month later. People holding it historically used the *Sedia gestatoria* throne and wore the *triregnum* crown. Recent people in this position include Karol Wojtyła [woy-TILL-uh], Joseph Ratzinger, and (*) Jorge Bergoglio. [HORE-hay ber-GOL-lee-oh] Potassium chlorate is burned to produce white smoke when the College of Cardinals elects a person to this post. Tradition holds Saint Peter was the first to hold—for 10 points—what position that leads the Roman Catholic Church?

answer: pope (prompt on "Bishop of Rome")

15. This language was the basis of the Javindo creole spoken on Java and is a source of the Sranan Tongo spoken in Suriname. Its dialects include Gronings and Zeelandic, and the Afrikaans language evolved from it. Words originating in this language include Yankee, (*) Wildebeest, knapsack, and bazooka. The Van Dale dictionary catalogs this language sometimes said to bridge English and German. For 10 points—name this language spoken in The Netherlands.

answer: Dutch language (accept Nederlands before "Netherlands", then prompt)

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16. **Ryan Merriman and Yani Gellman portray members of *Nos Animadverto Totus* club on this show; that name means "We See All." Locations on this series include The Brew where Talia cooks, and the Radley Sanitarium where Eddie Lamb works. The canceled *Ravenswood* was spun off of this show based on books by (*) Sara Shepard. Its main characters are Spencer, Hanna, Aria, Emily, and Alison. For 10 points—name this ABC Family and Freeform show about stalking and murders, which had a related web series called *Pretty Dirty Secrets*.**

answer: **Pretty Little Liars**

17. **One of this thinker's late works included the chapters "Why I am so Wise" and "Why I write such Excellent Books". His sister Elisabeth Förster posthumously edited his work to include nationalist and anti-Semite views. He outlined a goal of humanity to produce the Übermensch [OO-ber-MENCH], a term meaning the Overman or Superman. This thinker summarized (*) religion's decline with his statement "God is dead". *Ecce Homo*, *Thus Spoke Zarathustra*, and *Beyond Good and Evil* were authored by—for 10 points—what German philosopher?**

answer: Friedrich **Nietzsche**

18. **Robert Cantu devised a three-category scale for these events also rated by the MACE, a military evaluation. Montana's Dylan Steigers Act aims to prevent these incidents, and its protocols have been extended to rodeos and YMCAs. Estimated to affect two million U.S. adolescents each year, (*) Dr. Bennet Omalu studied the link between chronic traumatic encephalopathy [en-SEF-fal-OP-path-ee] and these, as noted in the title of a 2015 Will Smith film. For 10 points—give the term for these mild brain injuries caused by accidents and sports collisions.**

answer: **concussion** (prompt on "brain injury" or similar answers before "brain")

19. **The Charlot equation and Hammett function are useful for calculating this scientific quantity when the Henderson-Hasselbach equation is invalid. A team led by Darrell Nordstrom said this diagnostic equaled negative 3.6 when testing Iron Mountain Mine drainage. These values can be measured using azolitmin, malachite green, gentian violet, and other (*) indicators. Values on this logarithmic scale are often between 0 and 14, with pure water measuring 7. For 10 points—give this scale that measures acidity or basicity of solutions.**

answer: **pH**

20. **This person was the 1931 president of The Ninety-Nines, an organization founded at Curtiss Field. This person kept a log while traveling with Wilmer Stultz and included Fred Noonan in a later project. In July 2017 *National Geographic* sent border collies to a Kiribati [KEER-ah-bas] island to investigate this person, while the (*) History Channel claimed she was captured by the Japanese. It is certain she left New Guinea but did not arrive at Howland Island. For 10 points—name this aviator who disappeared while attempting to circumnavigate the globe.**

answer: Amelia **Earhart** [the Ninety-Nines was a club of female aviators]

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21. **With Bruce Twarog this man published a paper on blue stragglers in the cluster NGC 7789. He also authored the books *Just Visiting this Planet* and *The Pluto Files*. This person had a cameo in *Batman v Superman* in which he comments on Copernicus and evolution. His essays from the magazine *Natural History* are collected in (*) *Astrophysics for People in a Hurry* and he is the director of the Hayden Planetarium. For 10 points—name this African-American who hosted the documentary *Cosmos: A Spacetime Odyssey*.**

answer: Neil deGrasse **Tyson**

22. **James Johnston was the first man in charge of this place, and Olin Blackwell oversaw its 1963 closure. A group of Native Americans occupied the land around this complex for 19 months ending in 1971. Residents were transferred here from the Lewisburg Penitentiary and (*) Leavenworth. Doc Barker was killed trying to escape this facility, and John Paul Scott was suffering from hypothermia by the time he was recovered on a nearby shore. For 10 points—name this prison on an island in San Francisco Bay.**

answer: **Alcatraz** Federal Penitentiary

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Bonuses

1. Island guests are killed in this author's *And Then There Were None*. For 10 points each—

A. Name this author whose amateur detective Jane Marple appears in *The Murder at the Vicarage* and *A Caribbean Mystery*.

answer: Agatha **Christie** (accept Mary **Westmacott**, a pen name)

B. Christie's best known work may be the murder she set on this train traveling from Istanbul to Paris.

answer: (Murder on the) **Orient Express**

C. Mollie Ralston and Christopher Wren are characters in this Christie play that has been performed over 26,000 times.

answer: The **Mousetrap**

2. The Hongwu Emperor founded this dynasty in 1368. For 10 points each—

A. Name this dynasty which was replaced by the Qing [CHING] in the 17th century.

answer: **Ming**

B. The Ming dynasty constructed this Beijing imperial palace. It is said to have 9,999 rooms and its name referred to the policy that people could neither enter nor leave without the emperor's sayso.

answer: **Forbidden City** (or **Forbidden Palace**) or **Zijinchéng**

C. The Ming dynasty leased this trading post to the Portuguese. Hong Kong is 40 miles across the Pearl River Delta from this territory now called the Monte Carlo of the Orient due to its 33 casinos.

answer: **Macau** or **Macao** Special Administrative Region of the People's Republic of China [it was part of the Portuguese Empire after the Opium Wars and was returned to China in 1999]

3. For 10 points each—give these answers related to incidents right up there with Steve Harvey naming the wrong Miss Universe:

A. In February 2017 a Dominican Republic paper wrote about Trump, but ran a picture of this *Saturday Night Live* impersonator. This actor was Jack Donaghy on *30 Rock*.

answer: (Alexander Rae) Alec **Baldwin** III

B. The 2017 Academy Awards had a rough night: the very-much-alive Jan Chapman was memorialized, and *La La Land* was initially named Best Picture until it was realized this film actually won.

answer: **Moonlight**

C. In 2013, a Chennai, India billboard meant to honor Nelson Mandela, but instead posted a picture of this star of *Evan Almighty* and *The Bucket List*.

answer: Morgan **Freeman**

4. For 10 points each—give these answers related to photosynthesis:

A. Because photosynthesis absorbs heat, it is this kind of chemical reaction. Athletes initiate this kind of reaction when they squeeze ice packs.

answer: **endothermic**

B. The typical end product of photosynthesis is this sugar with molecular formula C₆H₁₂O₆. Long chains of these molecules exist in starch.

answer: **glucose** or **D-glucose** (prompt on "dextrose", "blood sugar", or "grape sugar")

C. This scientist worked with Andrew Benson and James Bassham at Cal-Berkeley to map the route carbon travels through plants during photosynthesis. He was the 1961 Chemistry Nobel recipient.

answer: Melvin **Calvin** [this route is known as the Calvin Cycle]

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5. For 10 points each—name these places known for weather extremes:

A. An ambient air temperature of 134 degrees Fahrenheit was once recorded in this basin between California and Nevada. Many unprepared hikers have perished in this national park.

answer: **Death Valley** (National Park)

B. Observers at this mountain, part of the Presidential Range of New Hampshire's White Mountains, recorded a 231-mile per hour wind in 1934, the record for a non-cyclone-related wind speed.

answer: Mount **Washington**

C. Between February 1971 and February 1972, there was 102 feet of snowfall recorded on this Cascades peak. It is Washington's highest mountain.

answer: Mount **Rainier** (or Mount **Tacoma** or Mount **Tahoma**)

6. This unit was originally defined to be one ten-millionth of the distance between the North Pole and the Equator. For 10 points each—

A. Give this length equal to about 39.4 inches.

answer: one **meter** (or **metre**)

B. In 1799 the French Assembly defined the meter to equal the length of a bar of this element. This valuable gray-white transition metal with atomic number 78 is often used in catalytic converters.

answer: **platinum**

C. This "father of modern chemistry" helped construct the metric system. He stated the Law of Conservation of Mass and disproved the phlogiston theory of combustion.

answer: Antoine-Laurent de **Lavoisier**

7. For 10 points—name these figures of the American west:

A. Sharpshooter Annie Oakley was among those who performed in this man's "Wild West" show. This figure's nickname came from his earlier job supplying laborers with bison meat.

answer: **Buffalo Bill** or William Frederick **Cody**

B. Aaron Copland wrote a ballet about this outlaw whose birth name was Henry. This figure died at the young age of 21 after he was shot by sheriff Pat Garrett.

answer: **Billy the Kid** or William H. **Bonney** (prompt on partial answers)

C. Surname required. This figure killed David Tutt in a duel and later served as the marshal of Abilene, Kansas. Poker enthusiasts know he was holding aces and eights when he was shot in Deadwood, the so-called "dead man's hand".

answer: (James Butler) "Wild Bill" **Hickok**

8. The change in this quantity is impulse. For 10 points each—

A. Give this quantity equal to mass times velocity. Heavy objects going fast have a lot of this, and it takes more impulse to stop them.

answer: (linear) **momentum**

B. Both momentum and kinetic energy are conserved in this type of collision. The collision of two billiard balls reasonably approximates this scenario.

answer: **elastic** collision (do not accept "inelastic")

C. Angular momentum is the rotational analog of momentum, and this name is given to rotational force. In terms of automobile engines, this force is often expressed in foot-pounds and represents the crankshaft's ability to do work.

answer: **torque**

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9. Sometimes mathematicians ask computers to check the many cases of a proof-by-exhaustion. For 10 points each—

A. One of the first computer-aided proofs was of the theorem stating this is the maximum number of colors needed for a map such that adjacent countries have different colors.

answer: **4** (accept **four color theorem**)

B. Computers demonstrated these matrix puzzles must start with at least 17 clues to guarantee a unique solution. The puzzles' Japanese name means "number single."

answer: **sudoku**

C. Computers helped in the 6-point case of the "happy ending problem," which states that among 17 random points there exists vertices of a hexagon with this property. In this kind of polygon no diagonals lie outside the polygon.

answer: **convex** polygon [Paul Erdős named this the happy ending problem because its study it led to the marriage of George Szekeres and Esther Klein]

10. In February 2013 the Carnival *Triumph* lost power, stranding 4,000 crew and passengers in this body of water. For 10 points each—

A. Name this body one would traverse when sailing from Alabama to the Yucatán Peninsula.

answer: **Gulf of Mexico**

B. In August 2005 this storm strengthened over the Gulf of Mexico and devastated New Orleans.

answer: Hurricane **Katrina**

C. In April 2010 this oil rig was drilling at the Macondo Prospect off Louisiana's coast when an explosion caused it to sink. That caused 5 million barrels of oil to spill into the Gulf.

answer: **Deepwater Horizon**

11. These substances have negative baryon numbers. For 10 points each—

A. Give this type of material rare in the universe, such as the positron. These substances undergo annihilation when they collide with their more common partners.

answer: **antimatter** or **antiparticles**

B. The Baryon asymmetry problem asks why this event did not create equal amounts of matter and antimatter. Cosmic inflation followed this event at the start of the universe 13.8 billion years ago.

answer: **Big Bang**

C. The ASACUSA experiment at this organization created an antihydrogen beam. This facility directed by Fabiola Gianotti is on the French-Swiss border and is the largest particle lab in the world.

answer: **CERN** or **European Organization for Nuclear Research** or **Organisation européenne pour la recherche nucléaire**

12. For 10 points each—name these authors whose works were adapted to musicals:

A. *Matilda the Musical* is based on a work by this author of *James and the Giant Peach* and *Charlie and the Chocolate Factory*.

answer: Roald **Dahl**

B. *The Hunchback of Notre-Dame* is by this novelist who described the 1832 June Rebellion in *Les Misérables*.

answer: Victor **Hugo**

C. Adapted into the musical *Hello, Dolly!*, *The Merchant of Yonkers* and *The Matchmaker* are versions of the same material by this man. His best known drama is probably *Our Town*.

answer: Thornton **Wilder**

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13. For 10 points each—give these figures in Native American myth:

A. Ford named a line of cars after this flying creature said to cause a great sound when it flapped its wings.

answer: **thunderbird**

B. This trickster canine is common to many tribes. The Shuswap people also call this figure Sk'elep and the Maidu say he told the world's first lie when he said he did not laugh while failing to make men out of clay.

answer: **Coyote**

C. Related to the Mayan figure Kukulcan, this feathered serpent in Aztec belief controlled the boundary between earth and sky.

answer: **Quetzalcoatl** [QWETZ-al-coh-AT-al]

14. Ernest Hogan helped to popularize this music genre. For 10 points each—

A. Name this genre present in Scott Joplin pieces like "The Entertainer" and a piece partially titled "Maple Leaf".

answer: **Ragtime** (accept **Maple Leaf Rag**)

B. It is said the name "rag" comes from "ragged time," meaning this use of off-beat rhythms. This term generally means placing stress on a normally unaccented beat.

answer: **syncopation** (accept word forms)

C. The 1919 piece "Piano-Rag-Music" is by this composer whose ballets include *The Firebird* and *The Rite of Spring*.

answer: Igor **Stravinsky**

15. This region's upper parts are warmer than the lower due to solar energy absorption. For 10 points—

A. Name this portion of Earth's atmosphere that lies above the troposphere.

answer: **stratosphere**

B. Commercial aircraft fly in the stratosphere to avoid these chaotic and irregular motions of the troposphere. Extreme cases of this shake airplane cabins.

answer: (clear-air) **turbulence** or **turbulent** flow

C. Stratospheric warming can weaken these low pressure zones around Earth's northernmost latitudes. The record low temperatures in January to March 2014 happened when this weakened and the normally-contained cold air spread south.

answer: (north) **polar vortex**

16. For 10 points each—give these terms describing burial sites:

A. This term generally means tunnels carved for religious purposes and specifically to Roman sites where Marcellinus and Peter are said to be buried.

answer: **catacombs**

B. A Persian ruler and his wife Artemisia were buried in this tomb at Halicarnassus included in the Wonders of the Ancient World.

answer: **Mausoleum** at Halicarnassus or Tomb of **Mausolus**

C. This term is Greek for "city of the dead". The ancient Egyptians built one at Thebes that includes the Valley of the Kings.

answer: **necropolis**

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17. This art movement's name is from a Claude Monet depiction of a sunrise. For 10 points each—

A. Give this movement that stressed ordinary subjects, thin brush strokes, and accurate depictions of light.

answer: **impressionism** or **impressionist**

B. Monet made about 250 depictions of these flowers on his garden pond, sometimes with a small curved bridge.

answer: **Water Lilies** (or **Nymphéas**) (prompt on "lilies")

C. Monet worked on his own version of this work showing people enjoying a noontime meal. Édouard Manet's version was controversial as it showed a nude woman with clothed men.

answer: The **Luncheon on the Grass** or Le **Déjeuner sur l'herbe**

18. This term broadly means a system of uniting the self with the Supreme Being through meditation and exercise. For 10 points each—

A. Give this term whose Hatha school uses postures and breathing techniques popularly done as an exercise regimen.

answer: **yoga**

B. Yoga practitioners are known as yogis, but the most learned figures may earn this term. The founder of Sikhism, Nanak, is known by this title.

answer: **guru**

C. Yoga collectively means the activities of body, mind, and speech in this other religious tradition that practices the ahimsa [uh-HIM-sah] nonviolence principle.

answer: **Jainism**

19. For 10 points each—name these John Steinbeck works:

A. The Joad family leaves their failing Oklahoma farm and travels to California looking for work in this novel.

answer: The **Grapes of Wrath**

B. This work ends with George shooting Lennie due to Lennie's accidental murder. Its title is from a Robert Burns poetry line that begins "The best-laid schemes".

answer: **Of Mice and Men**

C. *Sweet Thursday* is a sequel to this work whose title refers to a group of Monterey sardine factories. Its characters include Lee Chong and Dora Flood.

answer: **Cannery Row**

20. Some estimate this pestilence reduced Europe's population by 50 percent. For 10 points each—

A. Give this disease that spread across Europe beginning in 1346.

answer: **Black Death** or bubonic **plague**

B. One monarch who died of plague was this kingdom's Alfonso XI ["the eleventh"]. This realm united with Aragon in 1469, joining much of modern Spain's territory.

answer: **Castile**

C. When bubonic plague spread through Bavaria in 1633, the village of Oberammergau was spared. They thanked God by every 10 years performing this type of play, which depicts the trial, suffering, and death of Christ.

answer: **passion** play

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21. March 2017 saw the newest installment of *The Legend of Zelda*. For 10 points each—

A. What was the subtitle of that game?

Answer: **Breath of the Wild**

B. The villain in *Breath of the Wild* is the “Calamity” version of this foe who kidnapped Zelda in the original game.

answer: **Ganon**(dorf)

C. With the introduction of food to regain health and weapons that break, many gamers compared *Breath of the Wild* to this game series in which Geralt of Rivia slays monsters.

answer: The **Witcher**

22. For 10 points each—name these plants:

A. This plant commonly displayed at Christmas is named for the first U.S. ambassador to Mexico.

answer: **poinsettia** [after Joel Poinsett]

B. In 1637 the Dutch economy was harmed by the sudden price collapse of these flowers whose species include Bokhara and Viceroy.

answer: **tulip**

C. The Japanese emperor's throne is named for this flower. In France and Italy it's impolite to give this flower as a gift since it's used to decorate graves.

answer: chrysanthemums