

## **Bulldog High School Academic Tournament 2020 (XXIX): scary vibes**

Written by Yale Student Academic Competitions (Zach Alvarez, Joe Class, Stephen Eltinge, Ben Colon-Emeric, Michał Gerasimiuk, Mauricio Gonzalez-Sanchez, Hasna Karim, Michael Kearney, Sophie Lai, Alisia Pan, Matt Pecoraro, David Rubin, Varun Sikand, Daniel Sheinberg, Jeremy Sontchi, Sebastian Torres, James Wedgwood, and Bo You) with Olivia Murton and Annabelle Yang

Edited by Hasna Karim, Michael Kearney, James Wedgwood, and Annabelle Yang, with Jacob Reed and Stephen Eltinge

### **Packet 14 Tossups**

1. **One of these characters advises Joseph to lose all his money in a card game and thus free himself from the devil in Stravinsky's *L'Histoire du Soldat* [lee-STWAR doo sole-DAH]. One of these characters is featured before a men's chorus sings the *Shema Yisrael* in Arnold Schoenberg's *A Survivor from Warsaw*. The sections for one of these characters are often skipped in performances of Britten's *The (\*) Young Person's Guide to the Orchestra*. The line "If you listen very carefully, you'll hear the duck quacking inside the wolf's belly" is given by one of these characters in Prokofiev's *Peter and the Wolf*. Actors often perform—for 10 points—what role that involves speaking to the audience?**

ANSWER: **narrators** <AY>

2. **These functionalities can be converted into halogens using tri-phen-yl-phos-phine, or they can simply be displaced by a halide anion in an SN2 reaction if protonated. The presence of one of these groups defines the 3' [three-prime] end of a normal DNA molecule. One of these groups reacts with a carboxylic acid in the (\*) Fischer esterification. The simplest molecule containing one of these groups causes blindness if ingested instead of the second simplest form, which can cause a flushed face due to the action of this functionality's namesake dehydrogenase. The isopropyl variety of these is used for sterilization. For 10 points, name this functionality defined by an -OH group attached to an R group.**

ANSWER: **alcohols** [or **hydroxyl** groups; accept **-OH** groups before "-OH"] <HK>

3. **An example of the dynamic type of these with Bayesian updating is known as Selten's Horse. Empirical solutions to iterated varieties of them include "grim trigger" and "tit-for-tat." The normal form of these constructs is represented using a matrix of possible outcomes. John Von Neumann suggested using (\*) backward induction to solve their zero-sum varieties. Many of these things feature equilibria based on the opponent's decisions which are named for John Nash. For 10 points, name these situations studied by a namesake theory which studies decision making models during these events, which include the Prisoner's Dilemma.**

ANSWER: **games** [accept **game** theory] <BY>

4. **In "Out of the Cradle Endlessly Rocking," Whitman writes how the sea repeatedly "lisp'd" this "soft and delicious word" to him. A poem titled for one of these events consists of a dialogue between Mary and Warren and begins "Silas is back." Another poet writes how she "had put away / my labor and my leisure too, / for [this figure's] (\*) Civility." In that poem titled for this figure, the poet writes "I first surmised the Horses' Heads / were toward Eternity" and describes herself alone with this figure and "Immortality." For 10 points, name this figure, whom Emily Dickinson claims "kindly stopped for me" in a poem titled "Because I could not stop for [this figure]."**

ANSWER: **death** [or "The **Death** of the Hired Man," or "Because I could not stop for **Death**"] <JW>

5. A holder of this position delivered a radio address that was incomprehensible due to its courtly language, necessitating a follow-up speech. A faction that supported holders of this position operated under the slogan “repel the barbarians.” Succession to this position was the subject of the medieval-era (\*) Hōgen rebellion. A holder of this position delivered the “Jewel Voice” broadcast and later renounced his divinity in the “Humanity Declaration” of 1946. The Chrysanthemum Throne symbolizes the power of—for 10 points—what position that men like Hirohito held?

ANSWER: emperor of Japan [or Japanese emperor; or tennō] <MK>

6. The decline of this concept is prophesied to begin 2,000 years after Sakyamuni’s death and last for 10,000 years in an era known as *mappō*. Figures worshipped as protectors of this concept are held to be the wrathful manifestations of Buddhas. This concept is listed by the Pali Canon as one of three *kaya*, alongside transformation and enjoyment, of the Buddha. This concept, along with Buddha and *sangha*, is one of the (\*) Three Jewels of Buddhism. The Gautama Buddha set a symbol of this concept into motion, the *chakra*. For 10 points, name this Buddhist concept that refers to cosmic law and order.

ANSWER: dharma <AY>

7. This man ordered police commissioner James Kelso to stop the Orange Riots between Irish Catholics and Irish Protestants. This man worked as a sailor on a Spanish ship after escaping from Ludlow Street Jail. Samuel Tilden rose to popularity after breaking with this man, whose face is replaced by a (\*) money sack in a political cartoon by Thomas Nast. This man used the support of immigrant communities to funnel money towards developing the Upper East Side and building Brooklyn Bridge. For 10 points, name this wealthy political “boss” who ran New York City’s Tammany Hall political machine in the late 19<sup>th</sup> century.

ANSWER: William M. Tweed [or “Boss” Tweed] <VS>

8. This type of force appears in the name of the maximum stress a material can withstand before fracturing, called the “ultimate [this] strength.” In one system, this force equals “ $2 g m_1 m_2$  over  $m_1$  plus  $m_2$ ” in the absence of friction and rotational inertia. The speed of a wave on a vibrating string equals the square root of this force over the mass density. Unlike the (\*) bob weight, this force is the same on both sides of an Atwood machine. In general, this term describes any force that pulls a continuous object apart, in contrast to compression. On free-body diagrams, the letter *T* often indicates—for 10 points—what force exerted by a taut string?

ANSWER: tension [accept word forms like tensile force] <SE>

9. A U.S. airstrike in late January 2020 killed Qassim al-Rimi, the leader of Al-Qaeda in this country. A 2017 attempt to kill al-Rimi led to the death of Navy SEAL William Owens in this country. The United Arab Emirates announced in July 2019 that it would remove most of its troops from this country but maintain a small presence in (\*) Aden to support militias near the Red Sea. This country is the site of a proxy war between Iran and Saudi Arabia, the latter of which has backed an Arab coalition against Houthi rebels in this country. For 10 points, identify this country with capital at Sanaa, the site of the current largest humanitarian disaster according to the U.N.

ANSWER: Yemen <DR>

10. Book II of this work follows the exploits of a “Knight of Temperance” named Guyon, who has the title character’s face emblazoned on his shield. The wizard Archimago causes one character in this work to experience a “false dream,” and the central character of this work’s third book is a female knight named Britomart. In this work by the author of the *Shepherd’s Calendar*, (\*) Una travels with and ultimately marries the Redcrosse Knight. The title character of this work represents its author’s patron, Elizabeth I, and is named Gloriana. For 10 points, name this epic poem by Edmund Spenser that weaves together many moral allegories.

ANSWER: *The Faerie Queene* <JW>

11. The traditional Ewe naming system assigns names such as “Kofi” and “Afua” based on this factor. The Classical Chinese system names two of these entities after the sun and moon and the rest after elements, while in the Roman system there were eight of these things. In Arabic, one of these entities is called “jum'ua” [JOOM-mah] in reference to the (\*) “gathering” caused by a prayer that coincides with that one of these things. An association between Thor and Jupiter explains why the German word for one of these entities is “Donnerstag,” while the Spanish word is “jueves” [HWAY-vase]. For 10 points, what time periods do English speakers refer to with words like “Monday” and “Thursday”?

ANSWER: days of the week [accept weekdays; accept more specific things such as the day of the week on which the child is born; prompt on days] <JW>

12. 11 men haul one of these objects in a painting by Ilya Repin. Light shines through a storm over one of these objects in a Rembrandt painting stolen from the Isabella Stewart Gardner Museum. One of these things called *Gloucester* is pictured in a Winslow Homer painting. In another painting, a waxing moon shines in the left corner as one of these things is (\*) “tugged to her last berth to be broken up.” One of these objects is seen on the horizon in a painting where chained human forms flail as sea monsters circle below. J. M. W. Turner often depicted—for 10 points—what nautical objects, including *The Fighting Temeraire* and one used for transporting slaves?

ANSWER: ships [accept reasonable equivalents like boats or barges; accept specific answers like *The Fighting Temeraire* and *The Slave Ship* before mention] <JW>

13. Media Access Control addresses for devices consist of twelve digits of this type. In C and related languages, the prefix 0x [zero-x] is appended to numbers represented using this system. The most current version of the Internet Protocol addresses consists of eight sets of numbers represented using this system. A single digit in this system is equivalent to one nibble, or (\*) four bits, making conversion between this system and binary relatively simple. Colors can be encoded using a series of six digits in this system, which uses the letters A through F to denote 10 through 15. For 10 points, name this numbering system in base 16.

ANSWER: hexadecimal [or base 16 before “base 16”] <BY>

14. One film from this country explores the lives of three immigrants, Vinz, Saïd, and Hubert, and has a title that is sometimes translated *Hate*. In another film from this country, a boy runs away from a detention center to catch a long-awaited glimpse of the ocean. *Cléo from 5 to 7*, a film from this country about a female cancer patient, was directed by (\*) Agnès Varda. *Breathless* and *The 400 Blows* were among the defining films of this country’s influential New Wave movement, which saw Brigitte Bardot star in the films of directors like Jean-Luc Godard. For 10 points, name this country in which *Amélie* was directed by Jean-Pierre Jeunet and set in Paris.

ANSWER: France <JW>

15. Agreeing with John Burroughs, this author criticized writers of realistic animal fiction in the article “Nature Fakers.” This man’s family home was Sagamore Hill on Long Island. A copy of this man’s speech “Progressive Cause Greater Than Any Individual” prevented a bullet shot by John Schrank from killing him. He wrote the *History of the* (\*) *Naval War of 1812* and briefly served as Assistant Secretary of the Navy. This man established the United States Forestry Service. This man’s family brought a menagerie of pets, including the pony Algonquin, to the White House. For 10 points, name this Rough Rider, a U.S. President who also names a type of stuffed bear.

ANSWER: Theodore Roosevelt [or Teddy Roosevelt; prompt on Roosevelt; prompt on Teddy] <MP>

16. Forces of this country captured the ship *Royal Charles* after sailing up the Thames River in the “Raid on the Medway.” Led by the Duke of Alba, the Council of Blood sparked a revolt in this country during which the Sea Beggars operated. A prince from this country sailed to Brixham after receiving an invitation from the Immortal Seven; that prince later defeated (\*) James II at the Battle of the Boyne. Stadtholders once ruled this country, which defeated Spain in the Eighty Years’ War. William of Orange was a prince from—for 10 points—what country that founded the American colony of New Amsterdam?

ANSWER: The United Provinces of the Netherlands [or Nederland; or The Dutch Republic; accept Holland] <MK>

17. This author wrote about parents who named their twins by choosing words from the Bible, causing one to be named “First Corinthians.” In another novel by this author, the pedophile Soaphead Church convinces the protagonist to feed poisoned meat to her landlord’s dog. This author wrote about a girl who believes that nursing from a bloody breast made her immune to a (\*) ghost’s malice. In a novel by this author, Pecola Breedlove goes insane yearning for the title feature. In another work, this author wrote about the haunting of 124 Bluestone Road by the title character, who was killed by her mother, Sethe. For 10 points, name this author of *The Bluest Eye* and *Beloved*.

ANSWER: Toni Morrison <HK>

18. After being asked to lay down his weapons, a general at this battle supposedly said “come and take them.” Hydarnes commanded a force of 10,000 at this battle. Two navies supposedly fought at Artemisium on the same day as this battle, which an army won after Ephialtes revealed a hidden (\*) goat path. According to the legend of this battle, when a general was told his army “couldn’t see the sun because of the multitude of arrows,” he responded “then we shall fight in the shade.” Leonidas I died at this battle. For 10 points, name this 480 B.C. battle where the forces of Xerxes destroyed a rearguard that included 300 Spartans.

ANSWER: Battle of Thermopylae <MK>

19. An abnormal “overriding” version of this structure positioned over a ventral septal defect is one of the characteristic findings in the tetralogy of Fallot. Patients with connective tissue disorders like Ehlers–Danlos syndrome tend to be susceptible to aneurysms of this structure. “Crushing” or (\*) “tearing” pains are the classic presentation of one generally fatal condition of this structure called a dissection. This structure has ascending and descending branches, which create its namesake “arch.” The brachiocephalic artery, the left subclavian artery, and the left common carotid artery all split off of—for 10 points—what largest artery in the body?

ANSWER: aorta <HK>

20. A character in this play writes letters from her fictional lover to herself “always three times a week, and sometimes oftener.” In this play, a butler named Lane covers for another character when he eats all the cucumber sandwiches intended for his aunt. That character from this play states that “a man who marries without knowing (\*) Bunbury has a very tedious time of it,” referring to his practice of avoiding social obligations by pretending to visit an imaginary sick friend. In this play, Gwendolen and Cecily are courted by Algernon Moncrieff and Jack Worthing, who both adopt the title pseudonym. For 10 points, name this play by Oscar Wilde.

ANSWER: *The Importance of Being Earnest* <MGS>

*Tiebreaker*

**The protagonist of this novel is robbed by a street gang with such members as Claquesous and Gueulemer, called Patron-Minette. A large portion of this book consists of digressions on various topics, including street slang and the Battle of Waterloo. The Bishop Myriel gives the protagonist of this novel two (\*) candlesticks, allowing him to escape from the police. In order to pay the Thénardiens, Fantine is forced to sell her hair and front teeth, because she relies on that family to provide for her daughter Cosette. For 10 points, name this extremely long French novel centering on the ex-convict Jean Valjean, by Victor Hugo.**

ANSWER: *Les Misérables* <JW>

## Bonuses

1. Both the sister and granddaughter of one of this novel's protagonists, Clara del Valle, have green hair. For 10 points each:

[10] Name this novel, in which the clairvoyant Clara del Valle marries Esteban Trueba, the patriarch of a hacienda called Las Tres Marías.

ANSWER: **The House of the Spirits**

[10] *The House of the Spirits* was written by this Chilean author, a relative of the president deposed in the Pinochet coup and a noted magical realist.

ANSWER: Isabel **Allende**

[10] Allende also created this wandering, storytelling protagonist who documents the guerrilla movement of her former lover Huberto Naranjo. Eventually, this character agrees to marry Rolf Carlé, a European journalist.

ANSWER: **Eva Luna** <MGS>

2. In one scene in this film, a state trooper helps the protagonists change a flat tire on the side of a snowy roadway. For 10 points each:

[10] Name this 2018 biographical film about a tour by the musician Don Shirley. This film is named after a guidebook for African-American travelers in the mid-20<sup>th</sup> century.

ANSWER: **Green Book**

[10] In *Green Book*, Don Shirley plays this keyboard instrument, which also features heavily in the biopic *Amadeus*.

ANSWER: **piano**

[10] In *Green Book*, Don's bodyguard, Tony Lip, is played by this Danish actor. This actor is best known for playing a character that sometimes goes by the name "Strider."

ANSWER: Viggo **Mortensen** <BY>

3. Like absorption, this process occurs when the dipole of an atomic transition couples strongly to an external electromagnetic field. For 10 points each:

[10] Name this process, in which an incoming photon triggers an excited atom to release another photon of identical frequency, phase, and direction of travel.

ANSWER: **stimulated emission** [prompt on emission; prompt on but do NOT otherwise reveal lasing; do not accept or prompt on "spontaneous emission"]

[10] Stimulated emission is the basis for these devices that produce a coherent, monochromatic beam of light. Their applications include disk drives, fiber-optic communications, and eye surgery.

ANSWER: **lasers**

[10] In order for stimulated emission to occur, the energy difference between the atom's excited and ground states must be exactly equal to the photon's frequency times this constant.

ANSWER: **Planck**'s constant [prompt on h; do not accept or prompt on "h-bar"] <SE>

4. President Reagan formed the Rogers Commission to investigate this event. For 10 points each:

[10] Name this event that was caused by the failure of an O-ring seal due to unusually cold temperatures. The teacher Christa McAuliffe died in this event.

ANSWER: Space Shuttle **Challenger disaster** [accept any equivalents mentioning the **destruction** of the **Challenger**]

[10] This woman served on both the Rogers Commission and the commission that investigated the Space Shuttle *Columbia* disaster. She was the first female American astronaut to go into space.

ANSWER: Sally **Ride**

[10] This U.S. government agency ran the Space Shuttle program. This agency landed Neil Armstrong and Buzz Aldrin on the moon in the *Apollo 11* mission.

ANSWER: **National Aeronautics and Space Administration** <JS/MK>

5. This composer pioneered modern ethnomusicology by recording Magyar folk melodies with Zoltán Kodály. For 10 points each:

[10] Name this composer who incorporated traditional music into sections like “Stick Dance” and “Dance from Bucsum” in his *Romanian Folk Dances*. He also wrote *Music for Strings, Percussion, and Celesta*.

ANSWER: Béla (Viktor János) **Bartók**

[10] Bartók was from *this* modern nation, whose native son Franz Liszt wrote nineteen *Rhapsodies* named for it. Johannes Brahms wrote a set of twenty-one *Dances* named for this country.

ANSWER: **Hungary** [or **Magyarország**; accept ***Hungarian Rhapsodies*** or ***Ungarische Rhapsodien***; accept ***Hungarian Dances*** or ***Ungarische Tanze***]

[10] Hungarian composer Györgi Ligeti wrote a 16-part *a cappella* piece called *Lux Aeterna* that was used in *this* film. Ligeti was reportedly annoyed that this film uses both his music and pieces by Johann and Richard Strauss.

ANSWER: ***2001: A Space Odyssey*** <AY>

6. Depending on how one interprets a word in the *Iliad*, Heracles either shot Hades with an arrow at this city or at a gate to the Underworld. For 10 points each:

[10] Name this “sandy” city in Messenia that Telemachus visits during Book III of the *Odyssey*. He sees this city’s inhabitants sacrifice eighty-one bulls while its king, Nestor, looks on.

ANSWER: **Pylos** [or **Pylus**]

[10] In that episode, the inhabitants of Pylos dedicate the bulls to this god, whom Homer calls “earthshaker.” Later in the *Odyssey*, this sea god nearly prevents Odysseus from returning to Ithaca.

ANSWER: **Poseidon**

[10] After leaving Pylos, Telemachus proceeds to Sparta, which is ruled by this man. By wrestling the sea god Proteus in Egypt, this brother of Agamemnon learned how he could return home after the Trojan War.

ANSWER: **Menelaus** [or **Menelaüs**] <MK>

7. This state has the smallest number of counties of any U.S. state, with three—New Castle, Kent, and Sussex. For 10 points each:

[10] Identify this state whose border with Pennsylvania is demarcated by the Twelve Mile Circle. This state, the first to ratify the Constitution, has its capital at Dover and its largest city at Wilmington.

ANSWER: **Delaware**

[10] Delaware is one of three states that share this peninsula. This peninsula, which is named for the states that comprise it, tapers to a southern tip at Cape Charles.

ANSWER: **Delmarva** Peninsula

[10] The Delmarva Peninsula is separated from the mainland by this large estuary, into which the Delaware and Susquehanna Rivers flow. This body of water is noted for its crabs.

ANSWER: **Chesapeake** Bay <JS>

8. This process involves a “fast block” to multiple attempts to induce it. For 10 points each:

[10] Name this process. During this process, a sperm cell releases hydrolytic enzymes to break down the zona pellucida surrounding an egg cell.

ANSWER: **fertilization** [prompt on **gamete fusion**]

[10] The gametes of these model organisms are often used to study fertilization because they’re easy to collect and fertilization occurs externally. Tim Hunt also discovered cyclins in his studies of these organisms.

ANSWER: **sea urchins** [or **Echinoidea**]

[10] Study of sea urchin fertilization led to the discovery of the slow block to polyspermy, which involves an influx of ions of this element into the ovum. Ions of this element serve as an important secondary messenger.

ANSWER: **calcium** [or **Ca**; or **Ca<sup>2+</sup>**] <HK>

9. A ruler of this country styled himself with a number of ridiculous titles, including the “Last King of Scotland” and “Lord of All the Beasts of the Earth and Fishes of the Sea.” For 10 points each:

[10] Name this African country that Idi Amin ruled during the 1970s. Joseph Kony led the Lord’s Resistance Army in this country.

ANSWER: Republic of **Uganda**

[10] In 1976, after Palestinian militants hijacked a flight from Tel Aviv and flew it to Uganda, Israeli commandos led this raid, recovering all the hostages. This raid takes its name from Uganda’s primary airport.

ANSWER: **Entebbe** Raid [or **Entebbe** International Airport; accept **Operation Thunderbolt**]

[10] The only casualty of the Entebbe Raid was a commando, the brother of this Israeli politician. This politician approved Operation Protective Edge, which attacked Gaza.

ANSWER: Benjamin **Netanyahu** [accept “**Bibi**”] <MK>

10. This filmmaker’s rendition of the classical novel *Satyricon*, originally by Petronius, is an example of the surreal and fantastic quality of much of his oeuvre. For 10 points each:

[10] Name this filmmaker who depicted a frustrated film director in *8½*, as well as a couple splashing around in the Trevi Fountain in his *La Dolce Vita*.

ANSWER: Federico **Fellini**

[10] This other filmmaker depicted scenes of “modernity and its discontents” in such films as *Red Desert* and *L’Avventura*. He also directed the English-language film *Blowup*.

ANSWER: Michelangelo **Antonioni**

[10] Fellini began his career as an adherent to this country’s neorealist school. A man from this country, Robert Rossellini, directed *Rome, Open City*.

ANSWER: **Italy** <JW>

11. A short story by this author ends with hope dashed by the final ominous word: “Wolves.” For 10 points each:

[10] Name this author who wrote about Ulrich and Georg in “The Interlopers.” This pseudonymous Victorian British author of “The Open Window” also created the cat Tobermony whom Cornelius Appin taught how to speak.

ANSWER: **Saki** [or Hector Hugo **Munro**]

[10] While some speculate that Saki took his pen name from the eponymous monkeys featured in one of his stories, the more likely source of the name is the cupbearer in this set of Farsi quatrains translated by Edward FitzGerald.

ANSWER: *The **Rubaiyat** of Omar Khayyam*

[10] Saki was a major influence on this other British writer, who wrote the introduction to Saki’s *The Chronicles of Clovis*. This author is much more famous for writing the *Winnie the Pooh* series.

ANSWER: A(lan) A(lexander) **Milne** <HK>

12. A significant portion of this philosophical work is devoted to dismantling the then-popular “science” of phrenology, which purported to measure mental traits based on the bumps on one’s skull. For 10 points each:

[10] Name this treatise concerning the forms that its title concept takes on its way to becoming “pure knowledge.”

This treatise, which is supplemented by its author’s later *The Science of Logic*, outlines the master–slave dialectic.

ANSWER: ***The Phenomenology of Spirit***

[10] *The Phenomenology of Spirit* was the work of this German philosopher, whose system is often referred to as “absolute idealism.”

ANSWER: Georg Wilhelm Friedrich **Hegel**

[10] One person who was strongly influenced by Hegel was this later German philosopher, who is often said to have “stood Hegel on his head” by making material relations the “base,” and culture and society the “superstructure.”

ANSWER: Karl **Marx** <JW>

13. Prominent artists in this culture's style include David Piqtoukun [pick-TOO-cun] and Kenojuak [ken-OH-jew-ack] Ashevak. For 10 points each:

[10] Identify this North American ethnic group whose artwork achieved mainstream popularity in Canada in the mid-20<sup>th</sup> century. Sculptures from this culture were traditionally done in ivory or bone.

ANSWER: **Inuit** art [accept **Eskimo**]

[10] Inuit artists like Kenojuak Ashevak have explored drawing and printmaking, with her print of an *Enchanted* one of these birds being featured on a 1970 stamp. *Ookpik* toys depict the "snowy" variant of these predatory birds.

ANSWER: **owl**

[10] Ashevak worked in this Canadian territory, where a major Inuit arts workshop was founded at Cape Dorset. The self-titled "Capital of Inuit Art" is located on Baffin Island in this newest and northernmost Canadian territory.

ANSWER: **Nunavut** <DR>

14. At the beginning of the play in which he appears, this character has not left his bar since the death of his wife, Bess, twenty years ago. For 10 points each:

[10] Identify this character who, encouraged by Hickey, briefly steps outside on the next day, his birthday. This character's Greenwich Village saloon is the setting of the play *The Iceman Cometh*.

ANSWER: **Harry Hope** [accept either name]

[10] This other play by Eugene O'Neill, the author of the *The Iceman Cometh*, centers on the Tyrone family. In it, Edmund is diagnosed with tuberculosis, while his mother, Mary, is addicted to morphine.

ANSWER: ***Long Day's Journey into Night***

[10] A theater named for O'Neill is located on this street in New York City, which gives its name to the city's dramatic district as a whole.

ANSWER: **Broadway** <MK>

15. Answer some questions about New Testament epistles, for 10 points each:

[10] This New Testament epistle states that "the tongue is a small member, yet it boasts of great things." This epistle's declaration that "faith without works is dead" has been used to counter Martin Luther's *sola fide* doctrine.

ANSWER: Epistle of **James**

[10] 13 New Testament epistles are attributed to this apostle. This apostle converted to Christianity after experiencing a vision from God while traveling to Damascus.

ANSWER: Saint **Paul** the Apostle [or **Pauline** epistles; or **Paul** of Tarsus; or **Saul**]

[10] In Paul's first epistle to the people of this Greek city, he says that "love is patient, love is kind. It does not envy, it does not boast, it is not proud."

ANSWER: **Corinth** [or First **Corinthians**; or 1 **Corinthians**; or First Epistle to the **Corinthians**] <BCE>

16. The "Index of Prohibited Books" was published during this period. For 10 points each:

[10] Name this period begun by the Council of Trent. During this period, the Roman Catholic Church led a resurgence in reaction to emerging Protestant theology.

ANSWER: **Counter-Reformation** [or **Catholic Reformation**; or **Catholic Revival**]

[10] The Council of Trent explicitly condemned the *sola fide* doctrine of this German theologian, who began the Protestant Reformation by issuing the "95 Theses."

ANSWER: Martin **Luther**

[10] In 1520, this pope issued the bull *Exsurge Domine*, threatening Martin Luther with excommunication if he did not recant his views. This pope gave Henry VIII the ironic title "Defender of the Faith."

ANSWER: **Leo X** [or **Giovanni di Lorenzo de' Medici**] <MK>

17. The Philae lander was the first manmade object to land on the surface of one of these objects. For 10 points each:

[10] Name these small objects composed of ice and dust whose tails appear when heat from the Sun releases gasses trapped under their surfaces.

ANSWER: **comets**

[10] Many long-period comets are thought to originate in this region at the outer boundary of the solar system. It is roughly a thousand times farther away than the Kuiper belt.

ANSWER: **Oort cloud** [or Öpik-**Oort cloud**]

[10] This term refers to the nebulous envelope of water vapor and comet dust which forms around the nucleus of a comet as it passes near the Sun. This layer gives comets their characteristic fuzzy appearance in telescopes.

ANSWER: **coma** <BY>

18. Paris' *Flame of Liberty* statue became an impromptu memorial for this woman after her death. For 10 points each:

[10] Name this woman who, along with Henri Paul and Dodi Fayed, perished after a 1997 car accident in the Pont de l'Alma tunnel. Estimates say that her funeral was watched by 2.5 billion people.

ANSWER: **Diana**, Princess of Wales [or Princess **Diana**; or Lady **Diana**; or **Diana** Spencer]

[10] Initial media reports blamed Diana's death on these people, arguing that they were overzealous in their pursuit of her. These people take freelance photographs of high-profile celebrities.

ANSWER: **paparazzi** [accept **paparazzo** or **paparazza**]

[10] As part of her charity work, Princess Diana was patron of HALO Trust, an organization that opposes these devices. Jody Williams won the Nobel Peace Prize for her efforts to ban these devices.

ANSWER: **mines** [or land**mines**; or seam**ines**] <MK>

19. The protagonist of this short story greets his former lover during intermission at a showing of *The Geisha*. For 10 points each:

[10] Name this story in which the unhappily married Dmitri Gurov starts an affair with the title character, Anna Sergeyevna von Dederits, while vacationing in Yalta.

ANSWER: "The **Lady with the Dog**"

[10] Gurov has this profession in "The Lady with the Dog." In an unrelated story, this profession is held by the protagonist, who is visited by three spirits, and his deceased business partner Jacob Marley.

ANSWER: **banker** [accept **financier**]

[10] "The Lady with the Dog" is a short story by this Russian author, who is more notable for writing the plays *The Cherry Orchard* and *Three Sisters*.

ANSWER: Anton **Chekhov** <VS>

20. This element is the lighter of the two naturally occurring actinides. For 10 points each:

[10] Name this element. Uranium-238 decays into this element's 234 isotope, while its 232 isotope is used in proposals for non-weaponizable nuclear reactors.

ANSWER: **thorium** [or **Th**]

[10] Uranium-238 decays into thorium-234 via this process, in which the nucleus emits a particle made of two protons and two neutrons.

ANSWER: **alpha** decay

[10] Ionizing radiation, such as that generated in alpha or beta decay, can be detected by one of these clicking devices. Their namesake also co-names a law describing the rate of alpha decay with John Nuttall.

ANSWER: **Geiger counter** [or **Geiger-Müller counter**] <HK>

*Tiebreaker*

In one story from this collection, Shoba and Shokumar attempt to remedy their strained marriage by telling stories during power outages. For 10 points each:

[10] Name this short story collection that contains the stories “Sexy” and “The Third and Final Continent.” In one story from this collection, Mr. Pirzada gifts Lilia sweets as he waits for news of his missing daughters in Dhaka.

ANSWER: *The **Interpreter of Maladies***

[10] *The Interpreter of Maladies* is by this Bengali-American author, whose other works include *The Namesake* and *Unaccustomed Earth*.

ANSWER: Jhumpa **Lahiri**

[10] In “The Third and Final Continent,” the protagonist lives first in India, then in this country where Lahiri was born, then in America. Salman Rushdie grew up in India but is a citizen of this country.

ANSWER: United **K**ingdom of Great Britain and Northern Ireland [accept **Britain**; prompt on England] <HK>