

**2022-2023 IQBT Regular Season Set #1**  
**Round 8 – Tossups**

1. This prime minister's government secured the return of the “Two Michaels” from China by releasing Meng Wanzhou (MAYNG wahn-JOE). This politician was investigated for accepting inappropriate gifts from the Aga Khan and for family members accepting payments from WE Charity. This person maintained his office in a (\*) 2021 election despite Erin O'Toole's Conservative Party receiving about 150,000 more votes. This politician used the Emergencies Act to end the so-called Freedom Convoy of truckers. For 10 points, name this current prime minister of Canada.

ANSWER: Justin Trudeau [or Justin Pierre James Trudeau; prompt on Trudeau]

2. The three g-factors of the electron are the factor accounting for this property, the orbital g-factor, and the Landé (LAHN-day) g-factor. The hypothesized graviton would have a value of two for this property. Opposite half-integer values for this property must be assigned to two electrons in an orbital according to an (\*) exclusion principle named for Pauli. The Stern-Gerlach experiment used a beam of silver atoms to show that electrons have this property. For 10 points, name this form of intrinsic angular momentum possessed by quantum particles.

ANSWER: spin

3. The lackluster response to a devastating 1985 earthquake in this city damaged president Miguel de la Madrid's reputation. In 1968, protestors were gunned down at the Plaza de las Tres Culturas in this city's Tlatelolco (tuh-LAT-lee-LOH-koh) neighborhood shortly before it hosted the (\*) Summer Olympics. The Institutional Revolutionary Party ruled from this capital city from 1929 to 2000. This capital city contains the Museo del Templo Mayor and the Frida Kahlo Museum. For 10 points, name this capital city built over the former Aztec capital.

ANSWER: Mexico City [or Ciudad de México]

4. A painting of one of these events is believed to depict Victorine Meurent (myoo-rawn) along with two of the artist's brothers and was inspired by Titian's (TEE-shun's) *Pastoral Concert*. Two people in straw hats lean against a diagonal railing in a painting of one of these events. A pink-striped awning frames a painting of one of these events held for a (\*) boating party, by Pierre-Auguste Renoir (ren-wawr). Two clothed men and a naked woman lounge by a river in an Edouard Manet (man-AY) painting titled after, for 10 points, what event “on the Grass”?

ANSWER: luncheon [or lunch; or picnic; or dejeuner; or Luncheon of the Boating Party; or Luncheon on the Grass; or Le Déjeuner des canotiers; or Le Déjeuner sur l'herbe]

5. The Hepburn Act strengthened federal regulation of this industry, amending an 1887 act. Rutherford B. Hayes sent in federal troops to put down an 1877 “Great Strike” in this industry in West Virginia. Richard Olney sent General Nelson (\*) Miles to put down another strike in this industry, which was stopped by Grover Cleveland due to a potential effect on mail delivery. Eugene V. Debs led a strike against this industry's Pullman Company. For 10 points, name this industry, which employed thousands of workers to construct a transcontinental route.

ANSWER: railroad industry [or rail; or trains; or rail cars industry]

6. This poetry cycle notes that “Earth could not answer” when “There was- and then no more of THEE and ME.” An extended metaphor in this collection asks “Who is the Potter, pray, and who the pot?” A Eugene O'Neill comedy is named after a line from these poems, “Ah Wilderness!” This collection notes “The Moving (\*) Finger writes: and, having writ, / Moves on,” and asks for “A Jug of Wine, a loaf of Bread- and Thou.” For 10 points, name this set of Persian-language quatrains translated by Edward FitzGerald and attributed to Omar Khayyam (oh-MAR ee-hai-AHM).

ANSWER: Rubaiyat (ROO-bai-ot or ROH-boh-ee-YOT) of Omar Khayyam

7. The public transit system named for this city is the subject of the proposed Connect 400 expansion and has an extreme transfer outpost at the suburban Cumberland Mall. This city's attempt to annex Sandy Springs sparked the “cityhood” movement in its suburbs. The HBCUs Clark, Spelman, and (\*) Morehouse are located in this city, where Eric Rudolph carried out a bombing of the Olympics at Centennial Park, which is near the headquarters of Coca-Cola. The busiest airport in the world, Hartsfield-Jackson, serves, for 10 points, what capital of Georgia?

ANSWER: Atlanta

8. The speaker of this poem exhorts to “Rather at once our time devour.” The speaker of this poem thinks his “vegetable love should grow/ Vaster than empires and more slow”, while its addressee “Shouldst rubies find” walking by the Ganges. The speaker of this poem asks its addressee to “refuse/ Till the (\*) conversion of the Jews.” The speaker of this poem can “always hear...Time's winged chariot hurrying near.” For 10 points, name this quintessential carpe diem poem that begins “Had we but world enough and time,” and is by Andrew Marvell.

ANSWER: “To His Coy Mistress”

9. This allotrope can be magnetized by contact with smoothed YIG. A “flying carpet” made of this allotrope can be used to deliver TRAIL and DOX in cancer treatment. Andre Geim (heym) discovered this allotrope using scotch tape and mechanical exfoliation. This extremely conductive allotrope is a lattice arranged in a (\*) hexagonal shape and is another form of the same substance that comprises buckyballs and diamonds. For 10 points, name this two-dimensional form of carbon whose stacked layers are known as its “-ite” form and are used in pencils.

ANSWER: graphene [prompt on graphite; prompt on carbon until it is read]

10. In an opera by this composer, Clorinda and Tisbe's father hides Angelina, who falls in love with Prince Ramiro. This composer wrote an opera in which the female lead sings the aria “Deh! tu reggi in tal momento” (DEH TOO rej-ee in TAL moh-MAIN-toh) from a scaffold. This composer of *La Cenerentola* (lah CHAY-nay-REN-toh-lah) wrote an opera that includes a (\*) galop called the “March of the Swiss Soldiers” and centers on Gessler forcing the protagonist to shoot an arrow through an apple on Jemmy's head. For 10 points, name this Italian composer of *Cinderella*, *The Thieving Magpie*, and *William Tell*.

ANSWER: Gioachino Rossini [Gioachino Antonio Rossini]

11. This character, who donated part of his lifespan to his descendant Dawood (duh-WOOED), was given the honorific “Chosen of Allah,” or Safiullah (SAH-fee-oo-LAH). Abu Huraira (hoo-RAY-ruh) narrated that people in paradise will all look like this person, who was sixty cubits tall. In Muslim tradition, this husband of Hawwa is considered the first prophet. Because (\*) Iblis was made of smokeless fire, Iblis refused Allah's command to bow to this man, who was formed after Allah gave the command “Be” to make him from dust. For 10 points, name this Quranic and Biblical first man.

ANSWER: Adam [or Adem]

12. On a holiday devoted to these people, green mugwort dumplings are commonly eaten. These people are the namesakes of a “tablet” often found at home shrines. Locations devoted to these people are swept in a festival held about two weeks after the spring equinox on which fake money is burned. A central concern in (\*) Daoism is often described as “worship” or “reverence” of these people, who are the largest group included in the concept of filial piety. For 10 points, name these usually-deceased family members.

ANSWER: ancestors [or 祖; or 父; or 祖先; or 祖先; prompt on fathers; prompt on parents; prompt on dead people; prompt on spirits; prompt on ghosts; prompt on family members until “family members” is read; ]

13. A governor of this region brutally defeated Calgacus (kal-GAK-us) to the north of this region at the Battle of Mons Graupius (MAHNZ GRAO-pee-us). Caligula's (kuh-LIG-yoo-luh's) aborted invasion of this area ended with orders for his troops to gather (\*) seashells. Claudius brought elephants during the successful Roman conquest of this region. The Battle of Watling Street ended a rebellion in this region during the reign of Nero that was led by the Iceni (ai-SEE-nee) queen Boudica (BOO-dee-kah). For 10 points, name this region that Julius Caesar briefly invaded by crossing a channel from Gaul.

ANSWER: Britain [or Roman Britain; or Britannia; or Great Britain; or England; do not accept or prompt on “United Kingdom”]

14. This tissue contains cells with a similar name to pancreatic cells, which contain Birbeck granules and are called Langerhans (LAHN-gur-HAHNZ) cells. Corneocytes (KORN-ee-oh-Saits), which are found in the stratum corneum (STRAT-um KORN-ee-um) of this tissue, are the result of keratinocytes (KER-uh-TIN-oh-saits) differentiating in the stratum basale (STRA-tum baa-SAH-lee). Arrector pili (ah-REK-tor PAI-lee) muscles are found in this tissue, that also contains (\*) sebaceous (suh-BAY-shus) glands. UV radiation stimulates the production of Vitamin D in this tissue, which is affected by eczema. For 10 points, name this largest organ, which consists of the dermis and epidermis.

ANSWER: skin

15. In a painting by Sofonisba Anguissola (soh-foh-NEES-bah gwan-SOH-lah), the artist's sisters Lucia and Minerva use these objects while sitting opposite each other. Whale teeth and walrus ivory were used to make a group of these objects named for the Isle of Lewis. Howard Staunton names a popular (\*) set of these objects recommended by the organization FIDE (“fee-day”). In the algebraic notation used to describe the movement of these objects, the letter N represents a knight. For 10 points, name these objects used to play a board game that often ends in checkmate.

ANSWER: chess pieces [or black chess pieces; or white chess pieces; or chessmen; or chess sets; or Lewis chessmen; or Lewis chess set; or Uig chessmen]

16. The narrator of a novel by this author recalls hitting her then-fiancé in the face with a board with a rusty nail in it. Fonny is falsely accused of rape and his fiancé attempts to get him out of jail in this author's novel *If Beale Street Could Talk*. In another novel by this author, the narrator's brother Roy is (\*) stabbed on the narrator's 14th birthday. In that novel by this author, John Grimes experiences a series of religious visions. For 10 points, name this African-American author of *Go Tell It on the Mountain*.

ANSWER: James Baldwin [James Arthur Baldwin]

17. DHCP is used to assign “dynamic” values for this protocol that are automatically assigned each time a device is connected. Four hexadecimal (HEK-suh-DESS-im-ul) digits are used in the sixth version of this protocol which was created after its fourth version began running out of unique labels. (\*) DNS, or the Domain Name System, translates website names into this numerical identifier. A network loopback is designated in this protocol by the value 127.0.0.1. For 10 points, name this “address” used to identify devices on a network.

ANSWER: IP address [Internet Protocol address]

18. An owl serves as the logo for this rapper's record label OVO (oh-vee-oh). Damien Hirst designed an album cover for this artist which depicts three rows of emojis of pregnant women. 21 Savage raps “spin a block twice like it (\*) ain't nowhere to park” on this artist's song “Jimmy Cooks.” This artist features along with Lil Baby on a DJ Khaled song where he raps “wanted me to lie, wanted me to cry, wanted me to die” before stating that he's “stayin' alive.” For 10 points, name this Toronto-based rapper behind the songs “One Dance” and “Hotline Bling.”

ANSWER: Drake [or Aubrey Drake Graham]

19. The sound of a typewriter frames a scene in this film which ends with a man calling its title object an “absolute good.” In this film's epilogue, its lead actor lays roses while others lay stones on the grave of its title character, in the Catholic cemetery on Mount Zion. A man sees a girl in a red coat on a wagon full of (\*) bodies in this otherwise black-and-white film, during antagonist Amon Goth's liquidation of the Krakow ghetto. For 10 points, name this 1993 Steven Spielberg film in which an industrialist saves Jews from the Holocaust.

ANSWER: Schindler's List

20. This kingdom's objection to the November Constitution caused it to lead an alliance against Denmark in the Second Schleswig (SHLAY-shveek) War. This kingdom's name is used for the first-ever synthetic dye, which was used to create the distinctive color of its army uniforms. This kingdom's victory in the Seven Weeks War with (\*) Austria ended the era of “Großdeutsche” (GROSS-doy-chuh) confederation. Wilhelm I (VIL-helm the first) of this kingdom was elevated to emperor when the German empire was proclaimed near the end of another war won by, for 10 points, what kingdom that defeated France in 1871?

ANSWER: Prussia [Kingdom of Prussia; or Königreich Preußen]

21. This effect is not seen in saturated absorption spectroscopy (spek-TRAH-skuh-pee), which avoids the thermal broadening of spectral lines caused by this phenomenon. Walter Kundig used the Mössbauer (MOSS-bau-er) effect in an experiment on this phenomenon, after canal rays were utilized to measure the (\*) transverse form of this effect in the Ives-Stilwell experiment.

Echocardiograms (EK-oh-KARD-ee-uh-gramz) use this effect to determine the velocity of blood flow, and this effect is responsible for redshift. For 10 points, name this effect that is illustrated by the change in pitch of a siren as it passes by.

ANSWER: Doppler effect [or Doppler shift]

**2022-2023 IQBT Regular Season Set #1**  
**Round 8 – Bonuses**

1. For 10 points each, answer the following about general relativity.

[10] What scientist first proposed the theories of general relativity and special relativity in 1915 and 1905 papers, respectively?

ANSWER: Albert **Einstein**

[10] One of the earliest applications of the theory of general relativity was by Einstein himself, who used it to explain this planet's precession and why it differs from what is predicted under Newtonian physics.

ANSWER: **Mercury**

[10] This parameter, first defined in a solution to Einstein's field equations, measures the distance to the event horizon of a black hole.

ANSWER: **Schwarzschild radius** [prompt on gravitational radius]

2. One of this character's rivals, Titania, is portrayed as an influencer in a television series. For 10 points each:

[10] Name this green-skinned character who transforms from her normal persona, lawyer Jennifer Walters.

ANSWER: **She-Hulk** [do not accept or prompt on “Hulk” or “Incredible Hulk”]

[10] She-Hulk is portrayed in a namesake Disney+ (“**Disney plus**”) series by this actress. She also played five clones in *Orphan Black*.

ANSWER: Tatiana **Maslany** [Tatiana Gabriele **Maslany**]

[10] She-Hulk was a central member of this all-female offshoot of the Avengers that debuted in a 2015 comic.

ANSWER: **A-Force**

3. A blessing on this man describes him as a “ravenous wolf” who “in the morning devours the prey.” For 10 points each:

[10] Name this youngest son of Rachel, who does not participate in the assault on another of his brothers.

ANSWER: **Benjamin**

[10] This patriarch, whose sons became the namesakes of the Tribes of Israel, delivered the fatherly blessing to Benjamin and was married to Leah and Rachel.

ANSWER: **Jacob** [or **Yakov**; prompt on Israel]

[10] The fatherly blessing to this person describes a “fruitful vine.” This person was sold into slavery in Egypt after being given a “coat of many colors” by Jacob.

ANSWER: **Joseph** [or **Yōsef**; or **Yōsēp**; or **Yehōsef**; or **Yohōsēp**; or **Yūsuf**]

4. This President was given a 1,200-pound block of cheese by Massachusetts citizens. For 10 points each:

[10] Name this President who completed the Louisiana Purchase in 1803.

ANSWER: Thomas **Jefferson**

[10] Jefferson's foreign policy issues included the first of these wars against North African pirate states, during which the *USS Philadelphia* was held in the port of Tripoli.

ANSWER: **Barbary Wars** [or First **Barbary War**; or **Barbary Coast Wars**; or **Tripolitan Wars**]

[10] This naval captain led the burning of the captured *Philadelphia*. He also captured the *HMS Macedonian* in the War of 1812.

ANSWER: Stephen **Decatur, Jr.**

5. In the first *Peer Gynt* suite, “Anitra's Dance” opens with a roll on this percussion instrument. For 10 points each:

[10] Name this metal instrument often made of aluminum or brass that is now made in an equilateral shape.

ANSWER: **triangles**

[10] The triangle, along with cymbals and bass drum, evoke “Turkish music” in the “Military” symphony from this set of twelve symphonies by Joseph Haydn (**HAI-din**).

ANSWER: **London** symphonies [or **Salomon** symphonies; or Haydn's symphonies **93 through 104**]

[10] Eduard Hanslick mocked this composer's first piano concerto as a “triangle concerto.” This composer's 1853 B minor piano sonata exemplifies double function form.

ANSWER: Franz **Liszt** (**list**) [or **Liszt** Ferenc]

6. Armies under this consul stopped the Cimbri (**KIM-bree**) and Teutones (**too-TOH-nayz**) at the Battles of Aquae Sextiae (**AK-wai SEXT-ee-ai**) and Vercellae (**vair-KEL-ai**). For 10 points each:

[10] Name this “third founder of Rome,” who became consul for the seventh time in the midst of a civil conflict against his former colleague in the Jugurthine (**jug-UR-theen**) War.

ANSWER: Gaius **Marius** [The colleague referred to is Sulla.]

[10] After serving as governor of Hispania Ulterior, Marius married Julia, the aunt of this dictator who carried on much of Marius's program before being killed on the Ides of March.

ANSWER: Julius **Caesar** [Gaius Julius **Caesar**]

[10] Marius was exiled during a power struggle in this 91 BC conflict, in which Italian allies of Rome rebelled over a lack of citizenship rights.

ANSWER: **Social** War [or **Marsic** War; or War of the **Allies**; prompt on **Italian** War]

7. Mosquito bites can transmit a number of diseases. For 10 points each:

[10] What mosquito-borne illness caused by the *Plasmodium* (**plaz-MOH-dee-um**) genus affects over two hundred million people a year?

ANSWER: **malaria**

[10] People who are heterozygous (**HET-uh-roh-ZAI-gus**) for the allele (**aa-LEEL**) that causes this autosomal recessive disease have a natural resistance to malaria.

ANSWER: **sickle cell** disease [or **sickle cell** anemia]

[10] A number of countries require that travelers be vaccinated against this colorful mosquito-borne illness caused by an RNA *Flavivirus* (**FLAY-vee-vai-rus**).

ANSWER: **yellow fever**

8. This concept in international trade was first observed in *The Wealth of Nations* in 1776. For 10 points each:

[10] Name this situation where a country can produce a good more efficiently than another country, as measured by labor hours per unit output and ignoring all tradeoffs.

ANSWER: **absolute advantage** [prompt on **advantage**; do not accept or prompt on “comparative advantage”]

[10] This economist explained concepts of the invisible hand, the division of labor, and absolute advantage in *The Wealth of Nations*.

ANSWER: Adam **Smith**

[10] This economist, who has a namesake “equivalence” regarding government spending, explained the more subtle theory of comparative advantage in 1819's *On the Principles of Political Economy and Taxation*.

ANSWER: David **Ricardo** [prompt on **Ricardian** equivalence]

9. This man was accused of knowing about Chris Pincher's sexual misconduct before appointing Pincher as Deputy Chief Whip. For 10 points each:

[10] Name this former prime minister who attempted to launch the new “on your side” slogan in his last days before a forced resignation.

ANSWER: Boris **Johnson** [Alexander Boris de Pfeffel **Johnson**]

[10] Johnson was succeeded at the start of September 2022 by this other member of the Conservative Party, who quickly instituted an “Energy Price Guarantee.”

ANSWER: Liz **Truss** [Mary Elizabeth **Truss**]

[10] Johnson faced criticism for falsely linking Keir (**keer**) Starmer to the non-prosecution of this longtime BBC host, who was accused of hundreds of sex offenses after his 2011 death.

ANSWER: Jimmy **Savile** [James Wilson Vincent **Savile**]

10. The protagonist of this novel is served a portion of “great luscious, dead-ripe fruit” while watching a bather. For 10 points each:

[10] Name this novel, whose main character becomes obsessed with a pervasive smell of disinfectant and begins having troubling dreams about a “Stranger god.”

ANSWER: ***Death in Venice*** [or ***Der Tod in Venedig***]

[10] *Death in Venice* is by this author, who wrote about Hans Castorp's confinement to an asylum in *The Magic Mountain*.

ANSWER: Thomas **Mann** [or Paul Thomas **Mann**]

[10] Thomas Mann wrote in this language. Mann's *The Confessions of Felix Krull* is a parody of *Poetry and Truth*, which Johann Wolfgang von Goethe (**GUR-tuh**) wrote in this language.

ANSWER: **German** [or **Deutsch**]

11. One kind of these constructs begins by assuming that a statement is true, then shows a logical contradiction occurs, proving the statement false. For 10 points each:

[10] Name these mathematical structures, often introduced in geometry classes, which proceed logically from axioms to a conclusion.

ANSWER: **proofs**

[10] This proof technique begins by establishing the “base case” that a statement is true for  $n$ , then shows that the statement is true for  $n+1$ .

ANSWER: proof by **induction**

[10] This theorem was proved by proof of exhaustion. It gives the number of colors needed to fill a map on a plane without adjacent countries having the same color.

ANSWER: **four**-color theorem

12. Communities called *quilombos* (**kee-LAHM-bohs**) were occupied by people who escaped from this institution. For 10 points each:

[10] Name this institution abolished in Brazil via the Golden Law, ending decades of forced labor.

ANSWER: **slavery**

[10] The Golden Law was passed by Princess Isabel, the daughter of this Brazilian emperor who joined Argentina and Uruguay in the War of the Triple Alliance.

ANSWER: Dom **Pedro II** [prompt on **Pedro**]

[10] The 1835 Malê (**mah-LAY**) rebellion is named after the term then used in Brazil for these people. The Spanish explorer Estevanico (**est-ay-BAN-ee-koh**) and the South Carolina slave Bilalia Fula (**bee-LAH-lee-ah FOO-lah**) were among the first of these people in North America whose names are known.

ANSWER: **Muslims** [or people who practice **Islam**]

13. The experimental township Auroville was founded mostly in this state's Viluppuram (**VIL-oo-POR-ahm**) district. For 10 points each:

[10] Name this state on the southeast Indian Coromandel Coast, whose capital is home to Fort St. George, Marina Beach, and extensive Dravidian architecture.

ANSWER: **Tamil Nadu** (**TAH-meel NAH-doo**)

[10] Tamil Nadu is governed from this city on the Bay of Bengal, historically a center of British colonial power and the “Kollywood” Tamil-language film industry.

ANSWER: **Chennai** [or **Madras**]

[10] Tamil Nadu sites including Brihadisvara (**BREE-hah-DESH-wah-ruh**) and Ranganathaswamy (**RAHN-gah-nah-TAH-swah-mee**) are temples for this religion, the most widely practiced in India.

ANSWER: **Hinduism**

14. The Salon rejected a painting by this man depicting three of the title *Floor Scrapers*. For 10 points each:

[10] Name this painter who depicted a couple walking over wet cobblestones on a rainy day in another painting.

ANSWER: Gustave **Caillebotte** (**KYE-uh-butt**)

[10] That painting of a street on a rainy day is set in this city, whose art museums include the Louvre.

ANSWER: **Paris**, France

[10] An 1880 Caillebotte painting set at one of these places depicts a large mirror and a man with his hands in his pockets. A Van Gogh painting depicts a pool table in the center of one of these places at night.

ANSWER: **Café** [or *In a Café*; or *The Night Café*; or *The Night Café* at Arles; prompt on restaurant]

15. An H.L. Mencken essay describes this region as the “Sahara of the Bozart.” For 10 points each:

[10] Name this general region of the U.S. which was criticized by Mencken for failing to advance its culture after it lost the Civil War.

ANSWER: the **South** [or **Southern** States; or the American **Southeast**; prompt on **Confederacy**]

[10] Mencken claimed the “the whole of the literature of Georgia” consisted of Joel Chandler Harris transcribing Black folk tales narrated by this recurring character.

ANSWER: Uncle **Remus**

[10] Mencken's essay repeatedly contrasts Southerners with people given this name. The title of a 19th-century novel uses this word to refer to Hank Morgan, who has a child named Hello Central.

ANSWER: **Yankee** [or *A Connecticut Yankee in King Arthur's Court*]

16. For 10 points each, answer the following about the land art movement.

[10] Robert Smithson's piece *Spiral Jetty* was built using crystals and basalt (**baa-SALT**) on this western U.S. body of water.

ANSWER: **Great Salt** Lake

[10] Land artist James Turrell has displayed installations at this city's Whitney Museum. This city also contains the Metropolitan Museum of Art.

ANSWER: **New York** City, New York [or **NYC**]

[10] This husband-and-wife team designed land art projects such as *The Floating Piers*. They also created *Wrapped Reichstag* and a project in which they installed over 7,000 vinyl gates in Central Park.

ANSWER: **Christo** and **Jeanne-Claude** [or Christo Vladimirov **Javacheff** and Jeanne-Claude Denat de **Guillebon**]



17. A king of these people was crowned by Pope Sylvester II on Christmas Day, 1000. For 10 points each:

[10] Name these people who were ruled by Árpád (**AR-pod**) and Saint Stephen I. Their kingdom entered a “dual monarchy” with Austria 867 years later.

ANSWER: **Magyars** [or **magyarok**; or **Hungarians**]

[10] The Magyars' western expansion was ended at the 955 Battle of Lechfeld (**LESH-feld**) by this “Great” Holy Roman Emperor, who was crowned in 962 and was the son of Henry the Fowler.

ANSWER: **Otto I** [or **Otto the Great**; prompt on **Otto**]

[10] After settling in the Carpathian Basin, Magyars fought with people from this present-day country, who were shortly thereafter slain at the Battle of Kleidion (**KLEE-dee-ahn**) by Byzantine emperor Basil II.

ANSWER: **Bulgaria** [Republic of **Bulgaria**; or Republika **Bulgaria**]

18. This German philosopher's *Theodicee* (**thee-oh-deet-SEE**) proposes that we live in the “best of all possible worlds.” For 10 points each:

[10] Name this philosopher who is satirized in *Candide* with the character Pangloss.

ANSWER: Gottfried Wilhelm von **Leibniz** [or Gottfried Wilhelm **Leibnitz**]

[10] Leibniz theorized the existence of these “windowless” nonspatial particles in a treatise titled for their “-ology.”

ANSWER: **monads** [or **Monadology**]

[10] The *Monadology*'s doctrine of “pre-established harmony” resolves a problem arising from the idea that mind and body are separate substances, or this kind of “dualism.” This adjective, derived from the name of a French polymath, also describes the x-y coordinate system.

ANSWER: **Cartesian**

19. Anthocyanin (**ANTH-oh-SAI-uh-nin**) enables red cabbage juice to function as this kind of substance. For 10 points each:

[10] Name these substances that can measure the pH of a solution. Phenolphthalein (**FEE-nawl-THAIL-eeen**) is an example of this substance used in titrations (**tai-TRAY-shunz**).

ANSWER: acid-base **indicator** [or pH **indicator**]

[10] Another commonly used indicator is this colored paper, derived from dyes in lichens (**LAI-kenz**), that turns blue in basic solutions and pink in acidic solutions.

ANSWER: **litmus** paper

[10] To get a precise measurement of a solution's pH, one can use a pH meter which mainly consists of this device covered by a glass membrane. The “reference” one of these devices is kept submerged in an electrolyte with known pH.

ANSWER: **electrode**

20. This dramatist pled “benefit of the clergy” to avoid charges for his murder of Gabriel Spenser. For 10 points each:

[10] Name this author of *Every Man in his Humor* and *The Alchemist*, who described an attempt to win Dame Purecraft from Zeal-of-the-Land Busy in *Bartholomew Fair*.

ANSWER: Ben **Jonson**

[10] *Bartholomew Fair* was titled for a festival in this city. This city was also the site of the Globe Theatre, where “groundlings” watched plays inexpensively.

ANSWER: **London**, England

[10] Spenser had this non-writing profession, as did Shakespeare's colleagues in the King's Men.

ANSWER: **actors** [or **performers**; or **players**; or **troupers**]

21. Jains (**janes**) differentiate an “internal” form of this ritual called “bhava” (**bah-HAH-vah**) from the “dravya” (**DRAHV-yah**) type. For 10 points each:

[10] Give the Sanskrit name for these devotional ceremonies. In most of India, one of these rituals for Lakshmi (**LUK-shmee**) occurs on the third day of a “festival of lights.”

ANSWER: **pujas** (**POO-jahz**) [or **poojas**; or Lakshmi **puja**; or **puja**-bhava; or **puja**-dravya; or **Ashtaparakari Puja** or **eightfold puja**]

[10] The multi-religious “festival of lights” comprises this Indian holiday, during which Jains celebrate Mahavira's (**mah-hah-VEE-rah's**) nirvana.

ANSWER: **Diwali** [or **Deepavali**]

[10] This religion includes a minority “Santan” (**SAHN-taan**) tradition that adopted Hindu rituals, but most people in this religion instead follow its “true Khalsa” practices, such as doing “shastar (**SHAH-star**) puja” with a kirpan (**keer-PAHN**).

ANSWER: **Sikhism**