

1. Examples of these materials include metal-oxide ceramics, like cuprates, that have perovskite-like structure. Impurities or defects in one type of this material, such as niobium-titanium, can "pin" magnetic flux lines. The most sensitive magnetometers consist of a loop of these materials and two Josephson junctions. A theory of these materials proposed that two electrons are bound pairs coupled by phonons, the quanta of lattice vibrations, and can condense to a ground state. That theory was developed by John Bardeen, Leon (*) Cooper, and John Schrieffer, thus being termed BCS theory. Another type of these materials exhibits an effect in which a magnetic field surrounds, but does not penetrate them, which allows them to levitate magnets. For 10 points, name these materials in which current flows without resistance.

ANSWER: high-temperature superconductors [or word forms; or obvious equivalents]

<Reinstein>

2. This artist depicted an apron-clad man swinging a hammer towards three upraised spearpoints in *Smash the Hun*, one of his many covers for *The Dry Dock Dial*. One of this painter's first major successes was a watercolor depiction of a Victorian mansion in Gloucester called *The Mansard Roof*. His wife Jo modeled for many of his paintings, including one in which two rows of (*) light fixtures are reflected in a dark window and one in which a woman sits across from her possible doppelgänger near a large red restaurant sign. For 10 points, name this American painter of *Automat* and *Chop Suey*, who depicted three men and a woman in a brightly-lit corner diner in his *Nighthawks*.

ANSWER: Edward Hopper

<Carson>

3. *Steropodon galmani* belonged to this order. A species in this order secretes a substance which uniquely contains D-amino acids in a C-type natriuretic peptide. This taxon was named for its presence of a cloaca, though none of its members have scrota. Males of a species in this order have no SRY gene but do have five X chromosomes. This order's genera include *Ornithorhynchus*, *Tachyglossus*, and *Zaglossus*. This order branched off from today's (*) Eutheria and Metatheria around 200 million years ago. One of its species secretes a non-necrotic venom and has rows of electroreceptive organs on its bill. For 10 points, name this order that includes echidnas and platypuses, which are mammals that lay eggs.

ANSWER: monotremes [or monotremata]

<Mukherjee>

4. This country's majority ethnic group still legitimates governments through *loya jirga*, a traditional grand council. In the wake of this nation's Saur revolution, Operation Storm-333 killed this nation's sitting president at Tajbeg Palace. This country was briefly home to a murderous left-wing party called the PDPA, which supplanted Mohammad Daoud Khan. The warrior Gulbuddin Hekmatyar had to flee this home country of his several times. The (*) Haqqani group fights mainly against this Pashto-speaking country where Operation Cyclone, a CIA effort championed by Texas congressman Charlie Wilson, supported the *mujahideen*. For 10 points, name this nation invaded in 1979 by the Soviet Union, where Mullah Omar founded the Taliban.

ANSWER: Islamic Republic of Afghanistan

<Karas>

5. Gilbert Ryle used his namesake regress to argue for the independence of the "how" and "that" forms of this concept. An argument sometimes named for this concept was formulated by Frank Jackson and involves a scientist named Mary who sees red for the first time. In "On Denoting," Bertrand Russell argued that this concept can be acquired "by description" or "by acquaintance." Edmund Gettier proposed a counterexample to a definition of it found in Plato's *Theaetetus*, which defines this concept as (*) "justified true belief." Depending on whether it is derived from experience, as empiricists believe, this concept can be acquired either *a priori* or *a posteriori*. For 10 points, name this central concept of philosophy studied in epistemology.

ANSWER: knowledge [or word forms]

<Kothari>

6. This politician dispatched troops to Sierra Leone in Operation Palliser to help its government ward off the Revolutionary United Front. Alistair Campbell manipulated the notorious September Dossier for this man, who became his party's leader following the death of John Smith. This leader successfully amended Clause IV of his party's constitution, so it no longer called for "common (*) ownership of the means of production, distribution and exchange". This prime minister secured peace in Northern Ireland through the Good Friday Agreement. During his tenure, fifty-four people were killed in London's underground in the 7/7 attacks. For 10 points, name this "New Labour" Prime Minister who supported the invasion of Iraq.

ANSWER: Anthony Charles Lynton "Tony" Blair

<Bentley>

7. In one of this author's novels, the protagonist discusses her visits to Dr. Sugar and the subject of "personal relations" with Molly Jacobs. Slatter takes over a farm after persuading Dick and his wife to go on vacation in a novel by this author in which Mary Turner is killed by her black servant Moses. After a break in the lock, the planet Rohinda changes its name to (*) Shikasta in this author's science fiction pentalogy *Canopus in Argos*. This author's most famous novel contains sections titled *Free Women* and centers on Anna Wulf, who writes in a journal of the title color. For 10 points, identify this British author raised in Zimbabwe who wrote *The Grass is Singing* and *The Golden Notebook*.

ANSWER: Doris May Lessing

<Schindler>

8. A role for this voice range sings an aria ending with "I will destroy you" after repeatedly intoning "handsomely done." Another role for this voice type proposes a bet to Ferrando and Guglielmo. A third role for this range reveals three existing wives behind the seventh unlocked door to Judith, while another sings the arias "My soul grieves" and "I have attained supreme power" before dying during "The bell! The funeral bell!" (*) Claggart in *Billy Budd*, Don Alfonso in *Così fan tutte*, and the title character of *Duke Bluebeard's Castle* are performed by this voice type. For 10 points, name this operatic vocal range notably used for the title character of *Boris Godunov*, a male voice lower than baritone.

ANSWER: operatic bass [or basso profundo or anything that is a real term with the word "bass" in it including bass-baritone, but don't accept or prompt on "baritone" by itself]

<Weiner>

9. Montarco is driven out of this profession for writing fiction in a Miguel de Unamuno short story. A character in this profession bakes mustard seeds for the narrator and describes how he fell in love with a 20-year-old woman named Alexandra. Another character in this profession scolds a groom for stealing a kiss from his servant girl Rosa while securing a horse. This is the profession of Trifon Ivanitch, who works in a particular district, in a Turgenev short story. A member of this profession titles a novel narrated by (*) shipwreck survivor Edward Prendick, who encounters the Beast Folk, hybrid creatures created by vivisection. Kafka wrote about a "country" type of this person. For 10 points, name this profession practiced by Moreau in an H.G. Wells novel.

ANSWER: medical doctors [or physicians]

<Bentley>

10. In the Book of Luke, Jesus compares a sinner who repents to one of these objects that a woman lights a lamp and sweeps her house to find. Because they are not worthy of being placed in a corbana, a set of these objects are exchanged to obtain the Potter's Field. Upon being shown one of them, Jesus says "Render therefore unto Caesar the things which are Caesar's; and unto God the things that are God's." Jesus praises an old (*) widow who only puts two "mites," which are these objects, in a box. After receiving a set of them, a man uses a kiss as a signal; that man returns them to the High Priest before hanging himself from a tree. For 10 points, name these items that Judas received in exchange for betraying Jesus.

ANSWER: coins [or lepton; or mite; or tribute penny; or pieces of silver]

<Gupta>

11. During a game of "Shadrach," this character helps tie Eunice Ann to a chair in the furnace room of a church and tells her she won't burn if she has faith. This character recoils as if stabbed at each pronouncement of the word "guilty" while observing a trial with Reverend Sykes from the courtroom balcony, and his new aversion to injustice makes him stop his sister from squashing a roly-poly bug. Sheriff Tate doesn't think this character stabbed (*) Bob Ewell, but his own father does. At the beginning of the novel in which this character appears, his sister tells the reader that his elbow is broken, and his best friend is named Dill. For 10 points, name this brother of Scout and son of Atticus in Harper Lee's *To Kill a Mockingbird*.

ANSWER: Jeremy "Jem" Finch [accept either; prompt on "Finch"]

<Mehigan>

12. This profession is discussed in *The Glory of Their Times* by Lawrence Ritter, which contains interviews with Willie Kamm and Fred Snodgrass. Prior to becoming a revival preacher, Billy Sunday held this profession. Andy Messersmith and Curt (*) Flood had this profession, whose labor rights were fought for by Marvin Miller. An essay about retirement from this profession describes a "lyric little bandbox" in Boston and is John Updike's "Hub Fans Bid Kid Adieu." Four years after the debut of *The Civil War*, Ken Burns produced a nine-part documentary on this profession. This is the profession of Roy Hobbs, the protagonist of *The Natural*. For 10 points, name this profession of Ted Williams and Jackie Robinson.

ANSWER: professional baseball player [prompt on professional athlete]

<Rosenberg>

13. The Weierstrass substitution uses a half-angle input to this function to simplify complex trigonometric integrals to integrals of simple rational functions. The hyperbolic form of this function, of z , is equal to the exponential of two z , minus one all over exponential of two z , plus one. The half-angle formula for this function is commonly given as the difference of cosecant and cotangent. The integral of this function of x is equal to the negative natural log of cosine of x . One (*) plus its square yield secant squared. From the left, this function approaches positive infinity – a vertical asymptote – when its input is an odd integer times pi over two. For 10 points, name this function that is the ratio of sine and cosine, or opposite and adjacent sides.

ANSWER: tangent

<Reinstein>

14. One composition on this subject is based on text adapted to verse by Emile Deschamps. Mily Balakirev suggested several keys and revisions for an 1880 work on this subject. A Nino Rota film score based on this subject includes the ballad "What is a Youth". Another piece inspired by this subject contains both the "Dance with the Five Mandolins" and a piece that unusually features the celesta and a solo for tenor saxophone, the "Dance of the (*) Knights". It is the subject of a "Fantasy-Overture" by Tchaikovsky which contains a famous "love theme", as well as a "Dramatic Symphony" by Berlioz which contains the "Queen Mab Scherzo". For 10 points, identify the inspiration for Prokofiev's most successful ballet, a Shakespeare tragedy about two star-crossed lovers.

ANSWER: Romeo and Juliet

<Rosenberg>

15. One work by this man uses children's games and self-injury as examples of the universal mental urge to "restore to an earlier state". This man claimed conventional society has led men to hide their primitive instincts in a book that argues men to revert to an infantile state when subject to the "oceanic feeling" of religion. Another book by this man divided the mind into parts ruled by social mores, reality, and the (*) pleasure principle. This author of *Beyond the Pleasure Principle* claimed that dreams were a form of wish-fulfillment and devised the ego, the id, and the super-ego. For 10 points, name this Austrian psychologist who wrote *Civilization and its Discontents* and *Interpretation of Dreams* and founded psychoanalysis.

ANSWER: Sigmund Freud [or Sigismund Schlomo Freud]

<Spencer>

16. An author from this modern-day country described how "human mind leaves form behind" while asleep in "First Dream" and defended the education of women in the "Reply to Sister Dorothea". That author from this country was the subject of *Traps of Faith*, a book by a poet from this country who wrote "life and death are reconciled in thee, lady of midnight" and described a "willow of crystal" and a "poplar of water" in a (*) circular poem whose 584 lines correspond to the days of a certain calendar. That man analyzed this country in a book including the sections "The Conquest and Colonialism" and "The Sons of La Malinche". For 10 points, name this home country of Sor Juana and the author of "Sun Stone" and *Labyrinth of Solitude*, Octavio Paz.

ANSWER: Mexico [accept the United Mexican States or Estados Unidos Mexicanos; prompt on "New Spain" or "Nuevo España"]

<Carson>

17. In the 19th century, this was the primary resource produced by the "conacre" and "lazy bed" systems. Residents of the Altiplano made chuño out of this resource, whose widespread use in Europe was advocated by Antoine-Augustin Parmentier centuries after it was brought over from the (*) Americas. This crop gives an alternate name to the War of Bavarian Succession. During a period called "an Gorta Mor", the "Lumper" variant of this product was vulnerable to *P. infestans*, leading to mass emigrations via "coffin ships" in a disaster magnified by the Corn Laws. For 10 points, name this tuberous crop whose blight caused an great famine in Ireland.

ANSWER: potatoes [or *Solanum tuberosum*]

<Hart>

18. This industry's chief good spread the *Babesia* protist, which grew in ticks and caused splenic fever. A harsh 1887 winter wrecked this industry, whose troubles inspired the first example in Garrett Hardin's paper "The Tragedy of the Commons." Joseph McCoy helped build a center for this industry in Abilene, which was supplanted by Dodge City further west in (*) Kansas. J. F. Glidden's version of barbed wire drastically changed this industry. After Reconstruction, the Chisholm trail aided Texan participants in this industry's namesake "drives". For 10 points, name this industry which suffered as the open range contracted, and moved livestock to market for the production of steak and beef.

ANSWER: cattle industry [or free-range cattle; or cattle ranching; or cattle drivers; or cattle shipping; or cowboys; accept beef industry until "beef" is read; prompt on "meat industry", "farming", "livestock," or "rangers"]

<Jackson>

19. Hyginus states that this transformation befell Cecrops since he was the first to pour libations for the gods. After it was subdued by Heracles, Ladon was given this fate by Hera. Apollo honored the tortoise that was used to make the first lyre by performing this transformation on it. In addition to petrification, Zeus gave this fate to Laelaps and the Teumessian fox to resolve a paradox. This transformation was the ultimate fate of a son of (*) Poseidon and Euryale who attacked Merope while drunk. It's not turning into a bear, but Zeus gave this fate to Callisto and her son Arcas. For 10 points, identify this transformation, which results in the creation of objects like *Ursa Major*.

ANSWER: being turned into a star [accept equivalents, accept becoming a constellation and equivalents, accept being placed in the heavens and equivalents]

<Jose>

20. In microwave spectroscopy, this quantity can be empirically calculated as \hbar over the square root of twice the rotational constant times reduced mass. The rigid rotor model assumes that this quantity is constant for rotating molecules. It's the x-value of the minimum energy from the Morse potential. Like lattice constants, this quantity can be measured using X-ray diffraction only if it is the same order of magnitude as the X-rays' (*) wavelength. Only one value for this quantity is experimentally reported for nitrate due to resonance. This quantity decreases as bond order increases. It's usually around one angstrom. For 10 points, name this quantity equal to the distance between two atoms in a covalent bond.

ANSWER: bond length [or bond separation distance before it is read; prompt on partial answer]

<Silverman>

21. A character in this novel loses touch with her sister after the latter goes off with a well-dressed woman in a general store. In this novel, Adam has his face scarred before marrying Tashi, whom he met while in Africa with his adoptive parents, Samuel and Corrine. Squeak gets into a fight with Harpo's wife, Sofia, who is sentenced to twelve years in jail in this novel, after refusing to work as a maid for the mayor's family. This novel's protagonist pursues a relationship with the (*) blues singer Shug Avery, a former lover of her husband "Mr.," whose name turns out to be Albert. The letters that make up this novel are addressed to God and to the protagonist's sister Nettie. For 10 points, name this epistolary novel about Celie, by Alice Walker.

ANSWER: *The Color Purple*

<Mehigan>

22. This dynasty was sent royally-appointed *baillis* to administer northern domains and *senechals* to do the same in its south. Celestine III died before he could punish a monarch of this dynasty for spurning his second wife Ingeborg of Denmark. Robert the Strong was an ancestor of this house, whose founder feuded with Archbishop Arnulf. Another king of this dynasty was trapped by floodwaters after beseiging Damietta in (*) Egypt. An army led by this dynasty defeated the Holy Roman Emperor Otto IV at the Battle of Bouvines. This dynasty included Saint Louis and Philip Augustus, the latter of whom fought with Richard Lionheart in the Third Crusade. For 10 points, name this dynasty which became the Valois, which was started in medieval France by Hugh.

ANSWER: Capetian dynasty [or House of Capet]

<Gupta>

23. This statement can be derived from the Euler equations by assuming that flow is steady and irrotational. A simplified form of it states that the sum of dynamic and static pressure is constant. It can be combined with the continuity equation inside a constricted pipe to describe the Venturi effect. More generally, it states that, for an inviscid fluid, the sum of velocity squared over 2, pressure over density, and potential energy is constant. The equal transit time (*) fallacy is an incorrect application of this statement to airplane flight. It is essentially a statement of conservation of energy for fluids. For 10 points, name this principle that fluids exert less pressure when they move faster, named for a Swiss physicist.

ANSWER: Bernoulli's principle [or Bernoulli's equation]

<Eltinge>

24. This author argued that four "marks" distinguished courtly love in the work of medieval troubadours in *The Allegory of Love*. The protagonist is drugged and taken on a journey to Malacandra in this author's first novel about Elwin Ransom. The protagonist of an epistolary novel by this author is punished after a man is killed in an air raid before he can be turned evil. This author of *Out of the* (*) *Silent Planet* framed a novel as a conversation between the title character and the demon Wormwood. Like J.R.R. Tolkien, this author was a member of Oxford's Inklings. For 10 points, identify this author of the *Space Trilogy* and *The Screwtape Letters* whose Christianity inspired the lion Aslan in his *Chronicles of Narnia*.

ANSWER: Clive Staples Lewis

<Schindler>

1. Name these locations in the Pacific Ocean, for 10 points each.

[10] This country was previously known as the New Hebrides. Its national anthem, "Yumi, Yumi, Yumi," was written in its native Bislama language.

ANSWER: Vanuatu

[10] Jarvis Island, Baker Island, and Howland Island are all a part of this country's Pacific Remote Islands Marine National Monument. This country has a missile base on Wake Island.

ANSWER: United States of America

[10] This island in the Marshall Islands was the site of the 1954 Castle Bravo test and Operation Crossroads, after which most of this island's population was relocated to nearby Kili Island.

ANSWER: Bikini Atoll

<Karas>

2. Alfonso the Wise's law code for Castile stated that these people had to display the four chief virtues of prudence, fortitude, temperance and justice. For 10 points each:

[10] Name this noble warriors who fought on horseback. Medieval romances set the ideals of chivalry for these people's behavior.

ANSWER: knights [or cavaliers]

[10] This still-existent chivalric order, the highest in England, was started by Edward III and based on the ideals of King Arthur. Its motto is, "Shame come to him who thinks evil of it".

ANSWER: Most Noble Order of the Garter

[10] At this 1346 battle, the initial members of the Order of the Garter fought alongside Edward the Black Prince. John of Bohemia was killed at this battle after Genoese crossbowmen failed to help the French.

ANSWER: Battle of Crécy

<Bentley>

3. This note is a tritone away from F-sharp, and its minor scale is the relative minor of E-flat major. For 10 points each:

[10] Name this note whose major scale has no flats or sharps. It is the first note of the fixed-do solfège scale.

ANSWER: C

[10] This composer of *A Rainbow in Curved Air* pioneered minimalism with a piece consisting of 53 phrases in the title key, called *In C*.

ANSWER: Terry Riley [or Terrence Mitchell Riley]

[10] C major is also the key of this final symphony by Mozart, whose finale concludes with a five-voice fugato.

ANSWER: *Symphony No. 41 in C major* [or the Jupiter Symphony; or K. 551; or word forms, such as "forty-first"]

<Lawrence>

4. This man is told a story about Mary Jane Reed, whom the narrator calls "The Monkey." For 10 points each:

[10] Name this psychoanalyst who has to hear about Alexander's various sexual exploits and his massive Oedipus complex with regard to his mother Sophie.

ANSWER: Dr. **Spielvogel**

[10] Dr. Spielvogel listens to the title character in this novel, which is framed as a continuous monologue about sex, Judaism, and parenting.

ANSWER: **Portnoy's Complaint**

[10] *Portnoy's Complaint* is by this American author who included Nathan Zuckerman in his novels *American Pastoral* and *The Human Stain*.

ANSWER: Philip Milton **Roth**

<Mehigan>

5. One writer who used this language described how Tevye the Dairyman "Strikes It Rich" in one story. For 10 points each:

[10] Identify this language also employed by Isaac Singer, the author of *The Magician of Lublin*.

ANSWER: **Yiddish**

[10] Singer wrote a story about Jacques Kohn, an actor who championed the works of this Jewish writer of "A Hunger Artist" and *The Trial*.

ANSWER: Franz **Kafka**

[10] In this other Singer short story, a baker is cuckolded by his wife Elka and believes everything that people tell him. After Elka's death, he is briefly convinced by the Spirit of Evil to urinate in the bread he bakes for the town.

ANSWER: **"Gimpel the Fool"** [or **"Gimpel Tam"**]

<Bentley>

6. On the last day of this five-day long festival, brothers and sisters give each others blessings and gifts. For 10 points each:

[10] Name this Indian "festival of lights," which commemorates, among other things, Rama's victory over Ravana, and the birthday of Lakshmi.

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

[10] The celebration of the defeat of Naraka is the aspect of Diwali most significant to members of this South Indian ethnic group, who are fond of worshiping Shiva's six-faced son Murugan.

ANSWER: **Tamils**

[10] In Bengal, the Lakshmi Puja component of Diwali has largely been superseded by a festival to this scary-looking deity, oft-depicted with one foot on Shiva's chest.

ANSWER: **Kalika** [or **Bhavatarini**; prompt on **Durga**]

<Gupta>

7. These diagrams often have an "outgroup" which is not part of the same clade as other species. For 10 points each:

[10] Name these diagrams which show the "branching-off" of species from their common ancestors. They are used to predict evolutionary relationships between organisms.

ANSWER: **phylogenies** [or **phylogenetic trees**; or **cladograms**; or **dendrograms**]

[10] One method of determining phylogeny is to use this algorithm, which compares amino acid or nucleotide sequences between two organisms to determine genetic similarities. It was developed by Altschul et. al.

ANSWER: **BLAST** [or the **Basic Local Alignment Search Tool**]

[10] A common evolutionary tree of life proposed by Carl Woese divides life into three domains: Archaea, Bacteria, and these organisms, which have nuclei.

ANSWER: **eukaryotes** [or **Eukarya**; or **Eukaryota**]

<Silverman>

8. This subject of an 1813 portrait by Gilbert Stuart is shown wearing his work clothes and contemplating a silver teapot in another painting. For 10 points each:

[10] Name this silversmith, the subject of a 1768 portrait by John Singleton Copley.

ANSWER: Paul **Revere** [or the *Portrait of Paul **Revere***]

[10] Copley's most famous painting is set in Havana harbor and depicts two men leaning out of a boat and another man thrusting a hooked spear downwards in an effort to save Brook Watson from being eaten by an anatomically-incorrect one of these aquatic creatures.

ANSWER: a **shark** [or *Watson and the **Shark***]

[10] This Roman god holds a golden orb aloft in the center of an early canvas by Copley depicting his "Return". Agnolo Bronzino painted Andrea Doria in the guise of this Roman god.

ANSWER: **Neptune** [or *The Return of **Neptune***; or *Andrea Doria as **Neptune***]

<Bentley>

9. Springs and particles displaced from a stable equilibrium are described by this law. For 10 points each:

[10] Name this law, which states that the force is equal to the spring constant times the displacement.

ANSWER: **Hooke's** law

[10] This term refers to simple harmonic motion that is subject to dissipative effects that remove energy from the system. For a system's characteristic equation, the gamma parameter models the effects of this phenomenon.

ANSWER: **damped** [or word forms]

[10] For a system in simple harmonic motion, the natural frequency, usually symbolized omega-sub-naught, is the frequency at which a system will oscillate in the absence of a damping force. What is the natural frequency for an RLC circuit?

ANSWER: **one over** the square **root** of quantity **inductance** times **capacitance** [or square **root one over L C**; or obvious equivalents]

<Jose>

10. James Fenimore Cooper called the capture of the *Margaretta* off the coast of this modern-day state the "Lexington of the seas". For 10 points each:

[10] Name this state whose border was set by the Webster-Ashburton Treaty.

ANSWER: **Maine**

[10] The Webster-Ashburton treaty built on this 1818 agreement which curtailed the use of naval boats on the Great Lakes and set much of the US-Canada border at the 49th parallel.

ANSWER: **Rush-Bagot** Treaty

[10] This military officer was sent to fight over the Maine border in the rather bloodless Aroostook War before the treaty was signed. He later advocated strong blockades on all Confederate ports.

ANSWER: General Winfield **Scott**

<Bentley>

11. One creature who was pretty much identical to this other creature was named Empusa. For 10 points each:

[10] Name this Libyan queen who became a devourer of children after she was transformed into a hideous serpent-demoness.

ANSWER: **Lamia**

[10] Lamia was transformed into a hideous demon and cursed to eat children by this goddess, because Lamia was having an affair with her husband Zeus.

ANSWER: **Hera**

[10] Zeus gave Lamia the power to detach these body parts and reattach them. The Graeae were a group of sisters who shared one of these body parts and one tooth as well.

ANSWER: **eyes** [accept **eyeballs**]

<Jose>

12. This complex is home to the Great Enclosure. For 10 points each:

[10] Name this site built by ancestors of the Shona people, whose soapstone bird sculptures were often stolen over the ages.

ANSWER: **Great Zimbabwe**

[10] This British overseer of Cape Colony and De Beers diamond magnate argued that black people couldn't have built Great Zimbabwe, though they did.

ANSWER: Cecil John **Rhodes**

[10] Rhodes envisioned a railroad from "Cape to [this city]", allowing British holdings to span the whole African continent. Anwar Sadat and Gamal Abdel Nasser were secular rulers here.

ANSWER: **Cairo** [or **al-Qahirah**]

<Jackson>

13. In May 2014, the U.S. Supreme Court ruled in favor of the town of Greece, New York over Susan Galloway and Linda Stephens. For 10 points each:

[10] The case was started over this Greece practice at the beginnings of its city council meetings.

ANSWER: public denominational **prayer**

[10] The majority opinion in the case was written by this Reagan appointee, who was nominated for the court after Robert Bork was rejected.

ANSWER: Anthony **Kennedy**

[10] The justices disagreed over how to interpret this First Amendment clause limiting the government's religious role.

ANSWER: **Establishment** Clause

<Reinstein>

14. The shadow of this object is said to float "midway on the waves" in a poem in which it is described as a "miracle of rare device" and as being "sunny" but "with caves of ice". For 10 points each:

[10] Name this "stately" object, located near the "sacred river" Alph in Xanadu, whose construction by Kubla Khan was described in a 1797 poem.

ANSWER: Kubla(i) Khan's **pleasure-dome** [or **dome of pleasure**]

[10] "Kubla Khan" was written by this English author of *Biographia Literaria*, who described the travails of an albatross-murdering sailor in "The Rime of the Ancient Mariner".

ANSWER: Samuel Taylor **Coleridge**

[10] Coleridge's "Dejection: An Ode" describes "the dull sobbing draft, that moans and rakes upon the strings" of one of these instruments. Coleridge described the "one life" which "meets all motion and becomes its soul" in a conversation poem titled for one of them.

ANSWER: an **Aeolian harp** [accept "lute" for "harp"; prompt on partial answer]

<Carson>

15. Gallus Anonymus was among the first historians of this country, which was ruled by kings such as Mieszko I and Casimir the Restorer. For 10 points each:

[10] Name this European country. The Union of Krowo, in which its queen Jadwiga married into the Jagiello family, united it with Lithuania.

ANSWER: **Poland** [or **Polska**]

[10] This first ruling Polish dynasty included Mieszko and Casimir. Its final king, Casimir III, was succeeded by Louis of Hungary, giving way to Angevin rule.

ANSWER: **Piast** Dynasty

[10] The third Holy Roman Emperor with this name was a close ally of the Piast king Boleslaw I. The first Holy Roman Emperor of this name, nicknamed "the Great," beat the Magyars at Lechfeld in 962.

ANSWER: **Otto** [or **Otto III**; or **Otto I**; or **Otto the Great**]

<Liu>

16. This philosopher argued that judgments about the existence of the external world must be bracketed - a method he called *époché*. For 10 points each:

[10] Name this German philosopher who wrote three volumes of *Ideas* and developed the idea of the "life-world" in *The Crisis of the European Sciences and Transcendental Phenomenology*.

ANSWER: Edmund Gustav Albrecht **Husserl**

[10] Husserl wrote a series of meditations inspired by this French philosopher, whose *Meditations on First Philosophy* try to establish what is certain by imagining that all one's cognitive faculties are misled by an evil demon.

ANSWER: René **Descartes**

[10] Husserl was also the original dedicatee of this book, which describes two modes of attitudes toward objects called readiness-at-hand and presence-at-hand, and takes *Dasein*, or existence, as its central concept.

ANSWER: **Being and Time** [or **Sein und Zeit**]

<Kothari>

17. Tertiary amines are often hindered enough that they act as these compounds, not nucleophiles. For 10 points each:

[10] Name these compounds which, according to the Lewis definition, are electron pair donors, and according to the Bronsted-Lowry definition, are proton acceptors. Ammonia is a weak one.

ANSWER: **bases** [or **Lewis bases**; or **Bronsted-Lowry bases**]

[10] Another way to define bases is that they're compounds which form aqueous solutions in which this quantity is less than the pH. The sum of this quantity and pH equals 14, in water at 25 degrees Celsius.

ANSWER: **pOH** [or **power of hydroxide**]

[10] When Lewis bases form adducts with Lewis acids, the reaction makes this type of covalent bond, in which both bonding electrons are donated by one molecule. In coordination compounds, this type of bond does not change the oxidation state of a metal.

ANSWER: **dative** covalent bonds [prompt on **coordinate** bonds]

<Silverman>

18. Ancient Egyptian art made use of the "sunken" form of this technique, in which the carved figures are below the surface plane. For 10 points each:

[10] Identify this type of sculpture in which the backs of figures are attached to the background.

ANSWER: **relief** sculpture [or **relievo** or **rilievo**; or bas-**relief**; or high-**relief**; or sunk-**relief**]

[10] This artist employed relief sculpture in his "Back" series. This head of the Fauvists also painted *Harmony in Red* and *The Dance*.

ANSWER: Henri **Matisse** [or Henri-Emile-Benoit **Matisse**]

[10] Some of the finest examples of Roman relief sculpture can be found on this shrine, which was originally located in the Field of Mars outside of Rome. Richard Meier built a museum around this structure, which was commissioned by the Senate in 13 BCE to honor Augustus.

ANSWER: **Ara Pacis** [or **Ara Pacis** Augustae; or **Altar of the Augustan Peace**]

<Bentley>

19. In one scene in this play, four girls pose as wheels in a mock car-crash called the "Dance of the Lost Traveller". For 10 points each:

[10] Name this 1959 play in which the traditionalist Baroka clashes with the more modern Lakunle over the right to marry a village girl named Sidi.

ANSWER: *The **Lion and the Jewel***

[10] *The Lion and the Jewel* was written by this Nigerian playwright of *Requiem for a Futurologist* and *Madmen and Specialists*. Simon Pilkings catastrophically prevents a ritual suicide in his *Death and the King's Horseman*.

ANSWER: Wole **Soyinka** [or Akinwande Oluwole **Soyinka**]

[10] Soyinka's first published works appeared in a magazine founded by Ulli Beier and titled, in imitation of a Sartre essay, for a "Black" version of this Greek mythological character, the husband of Eurydice.

ANSWER: Black **Orpheus** [or **Orphee** Noir]

<Carson>

20. This quantity, related to the rank of a matrix, equals the number of basis vectors in a space. For 10 points each:

[10] Name this quantity equal to the number of coordinates necessary to specify a point in a given space.

ANSWER: **dimension**

[10] This system combining time with space simplified the special theory of relativity. It is named after the teacher of Einstein who developed it.

ANSWER: **Minkowski** spacetime

[10] This is the name for a figure in n-dimensional space which has n plus one vertices, such as a triangle in the plane or a tetrahedron in 3-space.

ANSWER: **simplex**

<Reinstein>

21. The azygos vein joins with one of these vessels before it enters the right atrium. For 10 points each:
[10] Name this pair of veins which empty deoxygenated blood into the right side of the heart, from both below and above.

ANSWER: vena cavae [or superior and inferior vena cavae]

[10] This other blood vessel emerges from the left ventricle, ascends, then descends again after reaching a hairpin turn at its namesake arch. It is the largest artery in the body.

ANSWER: aorta

[10] The aortic arch is formed during embryonic development from the sixth arch described by this adjective. This adjective also describes the "slits" found in some chordates that are homologous to gills, evidence of convergent evolution.

ANSWER: pharyngeal arches [or pharyngeal slits]

<Silverman>

22. During this period, resistance to central government policies by the DMK party in Tamil Nadu led to the dismissal of members of that party and the arrest of 16,000 protestors. For 10 points each:

[10] Identify this period marked by mass arrests and sterilizations. It lasted from 1975 until 1977 during the government of Indira Gandhi.

ANSWER: The Emergency [accept any answer indicating a prolonged state of emergency declared by Indira Gandhi]

[10] Indira Gandhi's bodyguards of this religious faith assassinated her after she ordered a raid on this faith's Golden Temple in Amritsar.

ANSWER: Sikhism

[10] In 1983, Indira Gandhi was elected the president of this group of nations following a meeting in Delhi. It was staunchly supported by Tito's Yugoslavia during the Cold War, despite Tito being Communist.

ANSWER: Non-Aligned Movement [or NAM; or Conference of Heads of State or Government of Non-Aligned Countries]

<Bentley>

23. This poem opens "you do not do, you do not do." For 10 points each:

[10] Name this poem that calls its subject a "man in black, with a Meinkampf look" after claiming "I have always been scared of you". It concludes "you bastard, I'm through."

ANSWER: "Daddy"

[10] "Daddy" is a poem by this American author, who used the pseudonym Victoria Lucas to publish her novel *The Bell Jar* and committed suicide by putting her head in an oven.

ANSWER: Sylvia Plath

[10] "Daddy" was published in this posthumous collection of Plath's poetry, whose title poem includes a description of the author as a "White Godiva" who unpeels "dead hands, dead stringencies."

ANSWER: Ariel?

<Mehigan>