Tossups

1. **While returning to this city, a character is waylaid by a group of outlaws, who after hearing his story determine him to be "a king for our wild faction!" In this city, a letter delivered by the maid Lucetta is carelessly torn apart, then reassembled and kissed, by Julia. The servants Speed and Launce, the latter of whom owns the dog Crab, are employed by a pair of characters from this city who fall out when one suddenly falls in love with the other's love interest, the Milanese woman (*)** Silvia. Another play opens with Abraham and Balthasar quarreling with Sampson and Gregory in this city, whose Prince Escalus attempts to stop the feud between the Montagues and Capulets. For 10 points, name this primary setting of *Romeo and Juliet*, an Italian city that also titles a Shakespeare play about Proteus and Valentine, its namesake "two gentlemen."
ANSWER: **Verona** [accept The **Two Gentlemen of Verona**]
<RC, Drama>

2. **The adagio second movement of a piano concerto by this composer opens with a sultry muted trumpet solo accompanied by a chorus of three clarinets. The first movement of that piano concerto opens with four booming timpani strokes followed by a cymbal crash and introduces a recurring Charleston motif. In a book analyzing one of this composer's pieces, David Schiff identified five main themes, including the "shuffle" and the recurring "ritornello" theme, which is first iterated in the piano. One of this composer's pieces begins with a trill followed by a (*)** 17-note rising diatonic scale, an opening debuted by Ross Gorman. Ferde Grofé ("FER-dee gro-FAY") arranged one of this composer's pieces for Paul Whiteman's orchestra, and that piece opens with a clarinet glissando. For 10 points, name this composer of *Rhapsody in Blue*.
ANSWER: George **Gershwin**
<BN, Music>

3. **The engineered vector pGLO contains a component from one of these systems, araBAD ("air-uh-bad"). N-acyl homoserine lactones are used to activate one of these systems which produces bioluminescence in *Vibrio fischeri*. One of these systems forms structures called the 1–2, 2–3, and 3–4 hairpins, the latter of which is responsible for attenuation. These systems are called (*)** "repressible" or "inducible" depending on whether they are activated or deactivated by their regulatory molecule. One of these systems produces a transacetylase, a permease, and beta-galactosidase from the activation of a single promoter. For 10 points, name these clusters of genes that are transcribed together, such as the ones in *E. coli* that metabolize lactose.
ANSWER: **operon**s [accept **araBAD operon** or **lux operon** or **trp operon** or **lac operon**]
<BB, Biology>

4. **A book by Michael Walzer titled for "spheres of" this concept posits that democratic political processes qualify as the "distributive" type of this concept. Another philosopher formulated the difference principle in a book named for this concept. That book named for this concept includes a thought experiment in which people do not know their eventual place in a society they are designing, the (*)** "veil of ignorance" thought experiment. Egalitarian theories of this concept were critiqued in another thought experiment where a million people each give Wilt Chamberlain a quarter. Robert Nozick wrote *Anarchy, State, and Utopia* as a response to a thinker who titled a book after this concept "as Fairness." For 10 points, John Rawls wrote *A Theory of* what concept?
ANSWER: **justice** [or **distributive justice** or *Justice as Fairness* or *A Theory of Justice*]
<RR, Philosophy>

5. **This person was accosted by FBI agents in a Virginia mall and threatened with 25 years in prison for filing a false affidavit. Lawyer and family friend William Ginsburg was criticized for seeking excessive publicity and for failing to secure this person a plea bargain. In 2015, Erica Jong apologized to this person for taking part in an earlier roundtable discussion in which Jong mocked (*)** her appearance. In a March 2018 *Vanity Fair* article, this woman called herself a victim of "abuse of power" and described a chance encounter with Ken Starr, who had earlier investigated her as part of a federal case. Linda Tripp befriended this woman but later secretly taped their phone conversations and convinced her to keep a semen-stained blue dress. For 10 points, an affair with which former White House intern led to the impeachment of Bill Clinton?
ANSWER: Monica **Lewinsky**
<TR, American History>

6. **In a still-life painting from this country, shades of green surround two carnival masks placed next to a brown mask inspired by a Solomon Islands canoe prow. Figures with dark yellow faces crowd around a central green table where a bright figure holds a cup in a depiction of *The Last Supper* by an artist from this country. Two women in furs walk down a sidewalk next to various men with black hats crowding together in a painting by an artist from this country who painted a self portrait of himself dressed in a (*)** soldier's uniform missing an hand. An artist from this country painted a yellow-toned *Dance Around the Golden Calf.* For 10 points, name this country home to an art movement called "the Bridge" whose members included Ernst Kirchner and Emil Nolde.
ANSWER: **Germany** [or Federal Republic of **Germany**; or Bundesrepublik **Deutschland**]
<YFL, Painting>

7. **A pair of linked poems by this author describe a figure who "secretly took up his bow again" to "punish a thousand wrongs in a single day" and who then discovered the speaker "all weaponless." This author related randomly opening a book to a line about how "men go about to wonder" at various elements of nature but "themselves they consider not," which prompted him to turn his "inward eye" upon himself, in a letter to his former confessor. He recounted an event on the "first hour" of the "sixth day of April" when "I entered the labyrinth, and see no escape" in a poem from a collection addressed to "you who hear the sound, in (*)** scattered rhymes." This poet, who ascended Mont Ventoux for fun, introduced the idea of the "Dark Ages." For 10 points, name this Renaissance humanist, the namesake of the Italian sonnet, whose collection *Il Canzoniere* ("eel can-zon-YEH-ray") chronicled his love for Laura.
ANSWER: **Petrarch** [or Francesco **Petrarca**]
<RC, Poetry>

8. **In many churches, the night before this holiday is the only night in which a special form of the Midnight Office service is performed. King Oswiu of Northumbria declared that the Synod of Whitby would observe this holiday on a date determined by Roman custom rather than the practices of monks of Iona in an account by the Venerable Bede. A Holy Fire is observed in the Church of the Holy Sepulchre on the night before this holiday. The letters (*)** alpha and omega are inscribed in a candle that is traditionally lit every year on this holiday whose date is calculated using the computus. The historical debate over celebrating this holiday on a day based on the Jewish calendar and the date of Passover culminated at the Council of Nicaea. The Exultet is sung during the vigil of, for 10 points, what holiday preceded by Lent that celebrates Jesus's resurrection?
ANSWER: **Easter** Sunday [accept **Pasch** or **Pascha**; accept **Resurrection Sunday**]
<YFL, Religion>

9. **This letter denotes a positively-charged "hole" which partly explains the strength of halogen bonding. In molecular symmetry, this letter denotes a plane of reflection symmetry. This non-English letter appears in the name of a family of pericyclic reactions which include the Cope and Claisen rearrangements. An alternative name for the Wheland intermediates observed during electrophilic aromatic substitution contains this letter. This letter describes a type of (*)** molecular orbital which can overlap with a vacant p orbital in hyperconjugation and is symmetric with regard to rotation around the bond axis. For 10 points, the overlap of two s orbitals can create a bond denoted by what Greek letter also used to represent summation?
ANSWER: **sigma**
<EM, Chemistry>

10. **A palace in this city contains a study nicknamed "the room of the deer" for its frescoes inspired by Sienese painters. Rulers in this city often lived in the nearby town of Carpentras, which was the capital of the Comtat Venaissin ("kawn-TAH ven-nay-SANN"). After placing Florence on interdict during the War of the Eight Saints, a ruler moved away from this city on the demands of (*)** Catherine of Siena. Benedict XIII presided during this city's decline in power at the end of a four-decade schism. A period that Petrarch likened to the Babylonian Captivity began when Clement V moved his base of power from Rome to this city. For 10 points, name this city in southern France home to several 14th-century popes and antipopes.
ANSWER: **Avignon**
<KS, European History>

Bonuses

1. Answer the following about characters in Greek myth named Melantho, for 10 points each.
[10] One such character became the mother of Delphus, the namesake of the town of Delphi, when she was seduced by this Greek sea god in the form of a dolphin.
ANSWER: **Poseidon**
[10] That Melantho was the daughter of this man, who survived a flood at the end of the Bronze Age and repopulated the Earth with his wife Pyrrha.
ANSWER: **Deucalion**
[10] Another Melantho was a sharp-tongued maid who disloyally revealed the nature of a long-incomplete burial shroud to her lover Eurymachus, who along with Antinous led this group of 108 men.
ANSWER: the **suitor**s of **Penelope** [or the **Proci**]
<RC, Mythology>

2. In this painting, the glowing full moon acts as the central figure's halo. For 10 points each:
[10] Name this painting in which Jesus holds a lantern and prepares to knock on an overgrown door.
ANSWER: *The **Light of the World***
[10] *The Light of the World* is a painting by an artist from this movement that rejected the influence of Joshua Reynolds. A red-headed boy is kissed on the cheek by a woman in a workshop in a painting from this art movement.
ANSWER: **Pre-Raphaelite Brotherhood** [or the **Pre-Raphaelites**]
[10] The Pre-Raphaelite Brotherhood was composed of artists from this country, such as William Holman Hunt, John Everett Millais, and Dante Gabriel Rossetti.
ANSWER: **England** [or the **United Kingdom**; or the **UK**; or the **United Kingdom of Great Britain and Northern Ireland**; or Great **Britain**]
<YFL, Painting>

3. This character, who says he drinks until he hears a "click" in his head, angrily claims that the one "great good true thing" he had in his life was his friendship with his football teammate Skipper. For 10 points each:
[10] Name this character who expresses his disgust with the world's "mendacity" to his father Big Daddy Pollitt in *Cat on a Hot Tin Roof*.
ANSWER: **Brick** Pollitt
[10] *Cat on a Hot Tin Roof* won a Pulitzer Prize for this author of *The Glass Menagerie* and *A Streetcar Named Desire*.
ANSWER: Tennessee **Williams** [or Thomas Lanier **Williams** III]
[10] Throughout the play, Brick's wife Maggie uses this insulting phrase to refer to the five horrible children of Brick's brother Gooper and his wife Mae.
ANSWER: **no-neck monster**s [prompt on partial answers like "no-necks"]
<RC, Drama>

4. Answer the following about concepts in signal processing, for 10 points each.
[10] Electronic filters are commonly used to reduce this phenomenon, random and undesirable fluctuations in the background of a signal. Its "white" form has a constant power spectrum across frequencies.
ANSWER: **noise**
[10] It is often convenient to analyze signals in the frequency domain, which is achieved by performing a transform named for this Frenchman, who names an infinite series of trigonometric functions used to represent periodic functions.
ANSWER: Joseph **Fourier**
[10] This type of noise results from the fact that on the quantum level, electric charge is discrete. For instance, when measuring an average current of 8.5 electrons per second, you'll measure 8 electrons some seconds, and 9 electrons other seconds.
ANSWER: **shot** noise
<BB, Physics>

5. A financial catastrophe in this year began after the collapse of Thailand's baht currency caused its near-bankruptcy. For 10 points each:
[10] Name this year during which most of the countries in Southeast Asia as well as South Korea experienced a major financial panic.
ANSWER: **1997** [prompt on '97]
[10] As a consequence of the 1997 financial crisis, this longtime dictator of Indonesia was forced to step down following his devaluation of the rupiah. This leader had earlier ordered the occupation of East Timor.
ANSWER: **Suharto** [or **Soeharto**]
[10] Proving that some things never change, this country's prime minister Mahathir Mohamad blamed investor George Soros for crashing its economy. Singapore split from this country, which controls most of the northwestern part of Borneo.
ANSWER: **Malaysia**
<TR, World History>