

1. A pronominal phenomenon known as *voseo* occurs in some dialects of this language. The word for "or" in this language undergoes a sound change when it precedes a word starting with an O sound. The imperfect subjunctive has two interchangeable conjugations, one ending in (*) –ra and one ending in –se, and there are two verbs for "to be," *ser* and *estar*. For 10 points, name this Romance language spoken in countries like Cuba and Argentina.

ANSWER: **Spanish** [or **español**; or **castellano**]

024-09-4-10102

2. This author satirized the Catholic Church by describing the noise made by the popehawk and the bishophawks on Ringing Island. This author unfavorably contrasted official dogmas with a fictional religious institution whose motto is "Do as you will," the Abbey of Theleme. One of this author's characters is taught a humanistic education by Ponocrates after climbing Notre Dame and (*) urinating on the crowd below, causing a massive deluge. Under the pen name Alcofribas Nasier, this author wrote about the adventures of Friar John and Panurge in a book named for two giants. For 10 points, name this medieval French author of Gargantua and Pantagruel.

ANSWER: Francois Rabelais

004-09-4-10103

3. The leaders of this movement derived from the Hakka, and it sought to outlaw gambling and tobacco use. Its minister of state was killed by Wei Chang-Hui, and it suffered the desertion of Shih Ta-Kai. Frederick Ward defended Shanghai from this rebellion, which was finally defeated with help by the (*) Ever-Victorious Army under Charles Gordon. It grew out of the God Worshippers Society, and it takes its name from the "Heavenly Kingdom of Great Peace." For 10 points, name this 1860s rebellion against the Manchus, whose leader, Hong Xiuquan, thought he was the younger brother of Jesus Christ. ANSWER: the Taiping Rebellion

026-09-4-10104

4. One author with this last name wrote a poem ending with the protagonist blowing a slug-horn after traveling through a barren land. That author with this last name wrote "Grow old along with me! / The best is yet to be" in "Rabbi ben Ezra," as well as the poem "Childe Roland to the Dark Tower Came." An author with this last name described a statue sculpted by (*) Claus of Innsbruck in a poem narrated by the Duke of Ferrara. Another author with this last name asked "How do I love thee? Let me count the ways" in *Sonnets From the Portuguese*. For 10 points, give this name shared by the author of "My Last Duchess," Robert, and his wife Elizabeth Barrett.

ANSWER: Robert and Elizabeth Barrett **Browning** [do not accept "Elizabeth Barrett Moulton"]

027-09-4-10105

5. This thinker claimed that all language is metaphor in "On Truth and Lies in a Non-Moral Sense." He critiqued the "herd mentality" of previous thinkers, and wrote a philosophical autobiography with chapters including "Why I Write Such Great Books" and "Why I am a Destiny". This author of *Human, All Too Human* and (*) *Ecce Homo* outlined the difference between Appolonian and Dionysian aesthetics in *The Birth of Tragedy*, and discussed the prophesy of the Ubermench in *Also Sprach Zarathustra*. For 10 points, name this German philosopher of *Beyond Good and Evil*, who claimed that "God is dead." ANSWER: Friedrich Wilhelm **Nietzsche**

6. After being goaded, this character describes winning a swimming contest over Brecca. When this character perishes, his kinsman declares that the eleven men around him will be exiled. This avenger of Scyld receives the Naegling after diving to a bottom of the lake and finishing his task by the ninth hour. The protector of the (*) Heorot, this character receives the Hrunting from Unferth, and is assisted by Wiglaf in his final fight against a dragon. For 10 points, name this Geat who slays Grendel in a namesake Old English epic.

ANSWER: Beowulf

033-09-4-10107

7. This figure's son won Hippodomia after defeating Oenomaus in a chariot race, and his daughter was turned into a rock on Mount Sipylus, where she is said to weep when snow melts above it. Pindar's first Olympian ode states that this figure stole nectar and ambrosia from heaven and gave it to the (*) mortals, and another legend states that he killed his son and fed him to the gods. For 10 points, name this father of Niobe and Pelops who was punished by having water and fruit placed just beyond his grasp.

ANSWER: Tantalus

030-09-4-10108

8. This effect can be used to calculate the number of free electrons in a wire by measuring the drift velocity. A quantum version of this effect was discovered by Klaus von Klitzing. When measuring this effect, a namesake (*) probe is calibrated using a known magnetic field strength. This effect can distinguish between negative charges moving in one direction and positive charges moving in the other, because the voltage differences will be opposite in magnitude. For 10 points, name this effect in which an applied magnetic field causes a voltage difference.

ANSWER: **Hall** effect

003-09-4-10109

9. One mountin in this range is Mount Alvernia, and one subrange of this range is the Sibillini. A war including the Battle of Caudine Forks, the Samnite wars, took place in this mountain range. This range includes the Maritime Alps(*), and the tallest mountain in this range is Corno Grande. This range is home to San Marino, and it ends in Calabria and runs through Umbria. The Tiber River flows from, for 10 points, which mountain range, often called the "backbone of Italy"?

ANSWER: Apennines

038-09-4-10110

10. In one poem, this author wrote "America it's them bad Russians" and "America I've given you all and now I'm nothing." In another poem, this author describes grabbing a "skeleton thick" sunflower and sticking it at his side. This author wrote "lord lord lord caw caw caw" at the end of an elegy for his mother Naomi, (*) "Kaddish." Another of his poems repeats "I'm with you in Rockland," denounces Moloch, and begins "I saw the best minds of my generation destroyed by madness." For 10 points, name this American beat generation poet of "A Supermarket in California" and "Howl."

ANSWER: Irwin Allen Ginsberg

11. One painting by this artist sees tormented souls claw at the title vessel as it carries the title character and Virgil across the River Styx. The title character of another of his paintings lies resignedly back as invading forces destroy his possessions(*) and kill his concubines. A third of his works depicts two pyramidally-organized groups of Greek victims of the title event. The central figure of his best-known work carries a musket in one hand and the tricolore in the other. For 10 points, name this artist of *The Barque of Dante*, *The Death of Sardanapalus*, *The Massacre at Chios*, and *Liberty Leading the People*.

ANSWER: Eugene **Delacroix** [or Ferdinand Victor Eugene **Delacroix**]

029-09-4-10112

12. This government was satirized in a painting that shows a donkey standing on a table at which two corpulent men and four empty suits convene. It violated a multinational agreement when foreign minister Walther Rathenau signed the Treaty of Rapallo along with Georgy Chicherin of the Soviet Union. The inability of this government to pay war reperations led to (*) massive inflation and devaluation of the Papiermark, and this government failed under the leadership of Paul von Hindenburg. For 10 points, name this German parliamentary government established after World War I whose collapse helped lead to the rise of Hitler.

ANSWER: Weimar Republic [prompt on "Germany"]

032-09-4-10113

13. This architect created a system of proportion based on human measurements, the Modulor system. He designed the Palace of Justice and numerous other buildings in Chandigarh, India. Works such as the Notre Dame du Haut(*) chapel exemplify the five points of architecture he outlined in *Towards a New Architecture*, and he is best remembered for a building in Poissy which is elevated by pilotis. For 10 points, name this Swiss-French architect of the Villa Savoye.

ANSWER: <u>Le Corbusier</u> [or Charles-Edouard <u>Jeanneret</u>]

024-09-4-10114

14. The larval dragon fly contains a trachaea on the rectum which serves as this structure. Spiracles often guide movement through this structure in some cartilagenous animals, and these structures are often covered by a bony osculum. These structures make use of the (*) countercurrent exchange system to transfer oxygen to the blood, and they are sometimes used to describe the pharyngeal slits that chordates are born with. For 10 points, name these respiratory structures that enable fish to breathe.

ANSWER: gills

020-09-4-10115

15. One statue of this deity served as the model for Hiram Powers's sculpture The Greek Slave, and is named for Medici. Praxiteles's sculpture of this deity standing nude and holding a drapery in one hand was purchased by the town of Knidus. Another sculpture of this deity is attributed to Alexandros of Antioch, and portrays this (*) goddess wearing a drapery about to slip off her hips. That sculpture of this goddess was discovered in 1820 on the Greek island Milos, and is missing both arms. For 10 points, name this goddess of love.

ANSWER: **Venus** [or **Aphrodite**]

16. The Lewis-Randall rule is related to this law by the Gibbs-Duhem equation, and it can be derived from the Duhem-Margules equation. The relation between the chemical potential of solute atoms and infinite dilution is given by the proportionality constant in this law. That constant in this law is found experimentally by measurements taken at a liquid-vapor equilibrium. It explains how divers get "the (*) bends" and why a bottle of soda fizzes when it's opened. For 10 points, name this law that relations the dissolved concentration of a gas to the gas's partial pressure above the solvent.

ANSWER: **Henry**'s Law

026-09-4-10117

17. This author described the meeting of George and Sabina in Atlantic City in a play about the Antrobus family, which survives an ice age and a flood. This author wrote a novel about the deaths of Esteban, Uncle Pio, and the Marquesa de Montemayor. This author of (*) The Skin of Our Teeth also wrote a play in which George Gibbs marries Emily Webb, who revisits her twelfth birthday after dying in Grover's Corners. For 10 points, name this American author of *The Bridge of San Luis Rey* and *Our Town*. ANSWER: Thornton Niven Wilder

036-09-4-10118

18. This man's minister Peter Barsymes established a monopoly over silk manufacture. Victories fought by his generals include the Battle of Daraa and the the Battle of Tricamarum. This ruler paid tribute to Khosrow I to establish an "Eternal Peace" and much of his policy was created by Tribonian. Although he was nearly deposed for Hypatius by mobs watching (*) chariot races, Belisarius was able to suppress the Nika Riots. He also compiled Roman laws in his namesake Code. For 10 points, name this Byzantine emperor who commissioned the Hagia Sophia.

ANSWER: Justinian I

034-09-4-10119

19. In a highly publicized 2004 incident, a Penn State team debuted a device that used a "bellows bounce" resonator to effect this process using sound waves. One cycle used to effect this process was patented by Albert Einstein and Leo Szilard, and it can also be done by completely reversing the (*) Carnot cycle. However, this process most often involves a vapor-condensation cycle using Freon or other CFCs. For 10 points, name this process of transferring heat from an enclosed space to the warmer outside environment, which is used in a common kitchen appliance.

ANSWER: <u>refrigeration</u> [or word forms like <u>refrigerator</u>s; do not accept "cooling" or other near-synonyms]

003-09-4-10120

20. This man lectured on the history of British juries as part of a twenty-four-hour filibuster in 1957. In protest of a speech by Minneapolis mayor Hubert Humphrey, this man joined with Mississippi governor Fielding Wright to run for President, picking up four states' electoral votes in 1948 as the (*) States Rights Democratic Party candidate. Six years later, he won election to the Senate as a write-in candidate, for the first of eight terms. For 10 points, name this one time segregationist leader who retired at age 100 after serving forty-eight years as a Senator from South Carolina.

ANSWER: James Strom Thurmond

21. This author wrote a poem whose speaker remembers hearing "the sea lisp[ing]" the "low and delicious word Death" on "Paumanok's shore" as a child. Another of this author's poems lists parts of the body before declaring "these are not the parts and poems of the Body only, but of the Soul." This author of (*) "Out of the Cradle Endlessly Rocking" and "I Sing the Body Electric" wrote an elegy for a man who "lies / Fallen cold and dead" as well as the poem "Song of Myself." For 10 points, name this poet who lamented the assassination of Lincoln in "O Captain, My Captain," and wrote the collection Leaves of Grass.

ANSWER: Walt Whitman



1. This artist depicted himself looking conspicuously Christ-like in his Self-Portrait in a Fur-Collared Robe. For 10 points each:

[10] Name this sixteenth-century German woodcut specialist, who also created *The Four Horsemen of the Apocalypse* and incorporated a magic square into *Melancolia I* (one).

ANSWER: Albrecht Dürer

[10] Dürer was a major artist of this 1500 to 1615 movement, which brought revolutionary techniques from Italy to Germany and the Low Countries, often for use in Lutheran subjects.

ANSWER: the Northern Renaissance

[10] Dürer produced an engraving of this figure "in his study" and a painting of him "in the wilderness." Many other artists depicted him producing the Vulgate Bible.

ANSWER: St. Jerome

019-09-4-10201

2. When the two masses in this system are unequal, they experience uniform acceleration. For 10 points each:

[10] Name these machines used to imagine physics problems; an ideal one consists of two masses m_1 and m_2 connected by a massless string over a massless pulley.

ANSWER: **Atwood**'s machine

[10] The central equations needed to solve Atwood's machine problems are the three laws of motion put forth by this Englishman; the first one talks about bodies in motion staying in motion.

ANSWER: Isaac Newton

[10] This man's formulation of classical mechanics is useful in Atwood's machine problems; the central equations of his mechanics are often co-named for him and Euler.

ANSWER: Joseph Louis Lagrange [or Giuseppi Lodovico Lagrangia]

026-09-4-10202

3. This nation's forces eventually fled Sevastopol during the Crimean war. For 10 points each:

[10] Name this empire that was the site of Napoleon's brief conquest of Moscow.

ANSWER: Russia

[10] This Tsar succeeded Nicholas I, and his nation's losses in the Crimean war inspired him to reform the country. He freed the serfs in 1861, and was killed by a terrorist bombing.

ANSWER: Alexander II [or Alexander Nikoleyevich II Romanov]

[10] During Alexander II's reign, this city hosted the negotiations to revise the Treaty of San Stefano. These changes forced Russia give back some gains of the Russo-Turkish War.

ANSWER: Berlin

- 4. He wrote about an Abyssinian prince who meets the poet Imlac, who guides him and his sister Nekayah. For 10 points each:
- [10] Name this author of *Rasselas*. He also wrote *The Lives of the Poets* and compiled a dictionary of the English language.

ANSWER: Doctor Samuel Johnson

[10] This frequent travel companion of Johnson wrote the celebrated biography *The Life of Samuel Johnson*.

ANSWER: James Boswell

[10] Johnson coined this term to refer to poets such as George Herbert and Andrew Marvell, who used many metaphors and complicated conceits in their poetry.

ANSWER: metaphysical poets

027-09-4-10204

- 5. As a condition of this man's will, his preserved skeleton, dressed in his own clothing and adorned with a wax head, is displayed in a case at University College London. For 10 points each:
- [10] Name this philosopher, who advocated the "greatest happiness of the greatest number" in *An Introduction to the Principles of Morals and Legislation* and theorized the "panopticon."

ANSWER: Jeremy Bentham

[10] This philosopher, who was educated in the works of Bentham before he could walk, expressed similar views in his liberal treatises *On Liberty* and *The Subjection of Women*.

ANSWER: John Stuart Mill

[10] Bentham and Mill are the two major figures of this philosophical idea, which holds that an act's morality is determined by the act's usefulness and contribution to human happiness.

ANSWER: utilitarianism

019-09-4-10205

- 6. This city replaced its estimo tax system with the castato system after its war with Milan during the 1420s. For 10 points each:
- [10] Name this Italian city that was subjected to the Bonfire of the Vanities under Savonarola in 1498.

ANSWER: Republic of **Florence** [or **Firenze**]

[10] During much of the Renaissance, Florence was ruled by this family whose members included Cosimo and Lorenzo the Magnificent.

ANSWER: de **Medici**

[10] Lorenzo's brother Giuliano was killed in a 1478 plot instigated by this rival family.

ANSWER: Pazzi

015-09-4-10206

- 7. This work was dedicated to the Maud children and based on a section of Henry Purcell's *Abdelazar*. For 10 points each:
- [10] Name this 1946 piece of educational music, which varies a theme throughout several tempos and instruments.

ANSWER: The Young Person's Guide to the Orchestra

[10] This composer of *The Young Person's Guide to the Orchestra* worked closely with the tenor Peter Pears on the operas *The Turn of the Screw*, *Peter Grimes*, and *Billy Budd*.

ANSWER: Edward Benjamin Britten

[10] Britten added poems of Wilfred Owen to the Latin text to create a "War" version of this genre. Mozart, Verdi, and Faure also composed noted examples of this Catholic mass for the dead.

ANSWER: requiem

- 8. For 10 points each, name these parts of the lung.
- [10] These tubes carry air into the lungs, but because they are lined with cartilage, no gas exchange can take place in them.

ANSWER: bronchi

[10] At the end of bronchioles are bunches of these structures in which the vast majority of gas exchange occurs.

ANSWER: **alveoli** [or other word forms like **alveolus**]

[10] This membrane's inner part covers the lungs, and its outer part is attached to the inner wall of the chest. Surface tension in the fluid between the layers keeps the lungs partially inflated.

ANSWER: pleura

032-09-4-10208

- 9. This son of Laufey and Farbauti fathered Fenrir, and Jormungand with Angrboda, and he killed Otter. For 10 points each:
- [10] Name this deity who shapeshifted and became the mother of Sleipnir, the trickster god of Norse mythology.

ANSWER: Loki

[10] This loyal wife of Loki holds a bowl that catches the venom dripped by a snake above his head.

ANSWER: Sigyn

[10] This daughter of Loki owns the staff Gambantian. She is half human and half corpse and rules the Norse underworld.

ANSWER: Hel

003-09-4-10209

- 10. He chronicled the demise of a merchant family in *Buddenbrooks*. For 10 points each:
- [10] Name this German author of *The Magic Mountain*.

ANSWER: Thomas Mann

[10] In this Thomas Mann novel, Gustav von Aschenbach becomes infatuated with the Polish boy Tadzio before eating some bad strawberries and expiring.

ANSWER: Death in Venice

[10] In this Thomas Mann novel, Serenus Zeitblom narrates the life of the composer Adrian Leverkuhn, who makes a deal with the devil in order to discover the twelve-tone scale.

ANSWER: **Doktor Faustus**

015-09-4-10210

- 11. These numbers are usually plotted in an Argand plane. For 10 points each:
- [10] Name these numbers that are generally expressed in the form of a plus b i.

ANSWER: **complex** numbers

[10] This formula relating trigonometry and complex numbers states that the cosine of x plus i times the sine of x, all to the nth power, equals cosine n x plus i sine n x.

ANSWER: De Moivre's Theorem

[10] Converting complex numbers between polar and parametric forms requires a formula named after this mathematician, whose identity states that e to the i pi plus one equals zero.

ANSWER: Leonhard Paul Euler

- 12. This author cut up phrases and rearranged the words to write *The Soft Machine* and *The Ticket That Exploded*. For 10 points each:
- [10] Name this beat author who wrote about people living in Interzone, such as Dr. Benway, in Naked Lunch.

ANSWER: William Seward **Burroughs** II [or Will **Lee**]

[10] William S. Burroughs was the inspiration for Bull Lee, who lets Sal Paradise stay with him in this novel. This beat novel follows Sal's travels, often with Dean Moriarty.

ANSWER: *On The Road*

[10] This author wrote *The Dharma Bums*, as well as *On The Road*.

ANSWER: Jack **Kerouac** [or Jean Louis Lebris de **Kerouac**]

027-09-4-10212

- 13. Formerly known as New Castile, the Sierra Madre chain rises along its east, and For 10 Points Each.
- [10] Name this fourth most populated island in the world, whose Bataan peninsula was sight of a famous transportation of prisoners in World War II.

ANSWER: **Luzon**

[10] Luzon is the largest member of this pacific island chain, with capital at Manilla, the location of an important battle of the Spanish-American War.

ANSWER: **Philippines**

[10] The second largest island in the phillipines is this island, home to the highest mountain in the country,

Mount Apo.

ANSWER: Mindanao

002-09-4-10213

- 14. This subfield of chemistry uses Pourbaix and Frost Diagrams, as well as a specific form of the Goldman equation. For 10 points each:
- [10] Name this area of study whose figures include Luigi Galvani and Alessandro Volta, which might discuss reduction potentials.

ANSWER: <u>electrical</u> chemistry [or <u>electrochemistry</u>]

[10] That generalization of the Goldman equation is named after this scientist. It is commonly used to find reduction potentials of half-cells.

ANSWER: Walter Nernst

[10] One constant in the Nernst Equation is this one, the number of coulombs per mole of electrons.

ANSWER: **Faraday**'s Constant

033-09-4-10214

- 15. ?Fisher equation relates real interest and nominal interest by taking this value into account. For 10 points each:
- [10] Name this indicator in microeconomics, whose sum with the unemployment rate is the misery index. Stagnation occurred simultaneously with high value of it in the '70s.

ANSWER: inflation rate

[10] Although he is not the namesake, Fisher discovered this economic curve. Edmund Phelps demonstrated that because people have rational expectations, in the long-run, this curve has a vertical rather than an inverse shape.

ANSWER: Philips Curve

[10] Economists typically calculate the inflation rate using the change in this measure of overall price level in an urban market.

ANSWER: Consumer Price Index

- 16. Founders of this movement included Leopold Senghor and Aime Cesaire. For 10 points each;
- [10]Name this twentieth century African literary movement, which was criticized by Sartre in his essay "Black Orpheus".

ANSWER: Negritude

[10] Most works of Negritude were originally published in this language. Other works originally published in this language include *The Song of Roland*.

ANSWER: French

[10] This author criticized Negritude by writing "a tiger doesn't proclaim its tigritude." This Nigerian playwright wrote The Lion and the Jewel and Death and the King's Horseman.

ANSWER: Wole Soyinka

038-09-4-10216

- 17. The third of these compositions is written for three violins, violas, and cellos, and a basso continuo, and after its first movement is a two-chord long second movement. For 10 points each:
- [10] Name these six Baroque compositions. The first one is the only to have a fourth movement, and they were dedicated to a German Margrave.

ANSWER: "Brandenburg" Concertos

[10] This composer wrote the "Brandenburg" Concertos. He also wrote an aria that was manipulated in the *Goldberg Variations* and he wrote *Anna Magdalena's Notebook*.

ANSWER: Johann Sebastian Bach

[10] Bach's last work is named "The Art of" this kind of composition. It opens with one voice playing a theme, and then others playing it in different keys. Bach doubled them with many preludes and toccatas.

ANSWER: **fugue** [or **fuge**; or **fuga**]

027-09-4-10217

- 18. It may have been caused by the end of the Second Bank of the United States. For 10 points each:
- [10] Name this national economic catastrophe early in the presidency of Martin Van Buren.

ANSWER: Panic of 1837

[10] The Panic of 1837 likely occurred due to the economic policies of this president. He confronted South Carolina in the Nullification Crisis and was known as "Old Hickory."

ANSWER: Andrew Jackson

[10] This Jacksonian executive order demanded that all government lands be paid for by gold or silver and not paper currency. It was a major cause of the Panic of 1837.

ANSWER: the **Specie Circular**

036-09-4-10218

- 19. This theory was put forth by astrophysicist and Catholic priest Georges Lemaitre, who hypothesized the idea of a primordial "cosmic egg." For 10 points each:
- [10] Name this theory advocated by George Gamow, which states that the universe started expanding about fifteen billion years ago due to a giant explosion.

ANSWER: **Big Bang** theory [or **Big Bang** model]

[10] This kind of radiation, discovered by Robert Wilson and Arno Penzias, is considered to be the leftovers from the Big Bang.

ANSWER: **cosmic microwave background** radiation [or **CMB**R; prompt on partial answer]

[10] This British astronomer derisively coined the term "Big Bang" and proposed a rival model, the "steady state" cosmology, with Hermann Bondi and Thomas Gold.

ANSWER: Fred Hovle

20. The Kronstadt Rebellion resulted in the creation of this policy, which was first declared in a decree known as "On the Replacement of Foodstuffs Requisitions for Fixed Foodstuffs Tax." For 10 points each:

[10] Name this somewhat moderate fiscal policy of Lenin, which replaced war communism in Russia in 1921.

ANSWER: New Economic Policy [or NEP; or Novaya Ekonomicheskaya Politika]

[10] After the death of Lenin, this purge-happy leader who led the Soviet Union during World War Two replaced the NEP with a policy of collectivization.

ANSWER: Joseph Stalin [or Joseph Besarionis dze Jughashvili]

[10] Joseph Stalin created five of these programs, which emphasized the rapid industrialization of the Soviet Union.

ANSWER: The **Five-Year Plan**s for the National Economy of the USSR [or **Pyatiletka**]

035-09-4-10220

21. In this novel, the title rule is explained to Yossarian by Doc Daneeka. For 10 points each:

[10] Name this novel set on the island of Pianosa, which describes the way soldiers such as Major Major Major and Milo Minderbinder react to the absurdity of war.

ANSWER: Catch-22

[10] This author wrote a novel from the perspective of King David entitled *God Knows*, in addition to *Catch-22*.

ANSWER: Joseph Heller

[10] In *Catch-22*, Yossarian becomes resolved to stop fighting after being unable to stop the gruesome death of this fellow pilot.

ANSWER: Snowden