

**Triacontakaipentagon Packet by Aaron Rosenberg and Shan Kothari**

**1. Nakamura et. al. suggested a hydrogen passivation mechanism as the reason why it was so difficult to perform this process in one material system. Subjection to very high levels of this process is responsible for the Burstein-Moss effect. This process can be accomplished by** spinning a thin film on the sample and then performing drive-in in a furnace; however, that method provides less control than ion (\*) implantation. Materials that have undergone this process to a small degree or not at all are called “intrinsic.” It doesn’t require applying a voltage, but this process is used to raise or lower the Fermi level. For 10 points, identify this process in which impurities are deliberately introduced into a semiconductor to make it p-type or n-type.

ANSWER: doping [prompt on “carrier injection”]

**2. This character smuggles his friend’s lover inside a Model T, and later considers that “perhaps there has been no I.” This character’s house burns down after one of his friends, an expert on German literature, falls asleep in bed while smoking. This character becomes rich after the passage of a new** constitution resolves a 47-year-old lawsuit, and after this character is caught voyeuristically spying on a couple in the park, his adoptive son moves to have him declared senile. This character goes on a vacation to (\*) Benares and the caves of Ajanta after meeting Ying Chan, and later adopts Toru as his heir. As a youth, this character’s best friend tells him “I’ll see you again, beneath the falls,” which later leads him to realize that Isao is the reincarnation of Kiyosaki Matsugae. For 10 points, identify this man whose reincarnating friend keeps dying at age 20, the central character of Yukio Mishima’s *Sea of Fertility* tetralogy.

ANSWER: Shigekuni Honda [accept either]

**3. This group won the first week of the U.S. version of *Hit Me, Baby, One More Time!* by singing a cover of “Heaven” by Los Lonely Boys. This group’s song “Revolution” appeared during the end credits of Spike Lee’s biopic *Malcolm X*. One of the few writing credits of this group’s spiritual adviser Baba Oje appears on the opening track of their poorly-selling second album *Zingalamundi*, which included the single “United Front.” This group sampled Prince’s “Alphabet Street” in a song that asks to “Take me to another place / Take me to another land” and features singing by (\*) Dionne Farris. “Mr. Wendal” appears with that song, “Tennessee,” on this group’s album *3 Years, 5 Months & 2 Days in the Life Of...* For 10 points, name this hip-hop group founded by Speech and Headliner which sued Fox over a similarly named TV show about the Bluth family.**

ANSWER: Arrested Development

**4. This film originally contained a line from the Bhagavad-Gita which Warner Bros. claimed was an “accident” and removed following a series of Hindu protests. The soundtrack of this film includes a Romanian liturgical chant played in reverse, as well as a recurring excerpt from Ligeti’s *Musica Ricercata*. At a party near the opening of this film, the female lead dances with the Hungarian Sandor Szavost. The protagonist purchases a costume from Mr. Milich, who catches his daughter having an affair with two Japanese men. After meeting up with his old friend Nick Nightingale, the protagonist uses the password (\*) “Fidelio” to gain access to a secret gig which turns out to be a masked ritual orgy. The events of this film are set in motion following an argument over fidelity between Bill Hartford and his wife Alice. For 10 points, name this erotic thriller starring Tom Cruise and Nicole Kidman, which was based on Arthur Schnitzler’s *Dream Story* and was the last film directed by Stanley Kubrick.**

ANSWER: Eyes Wide Shut

**5. One writer from this country concludes that “each of us holds / something / in our mouths” in her poem “Blue Bird.” Another wrote that “With me it wasn’t all that dramatic. / A slight stroke in the morning, from time to time” in a poem that says that for another person, it was “a one-time thing.” One poet from this country wrote that “Each of us has a name / given by the sea / and given by / our death.” In a verse novel from this country, Dita moves in with the father of her boyfriend Rico, an accountant named Albert Danon. One poet from this home country of Zelda asked “through what crack shall I see the white housing projects of my dreams” in his poem “Half the people in the world,” and in another poem wrote “That’s not a scar you feel under my shirt, that’s / A letter of recommendation.” That author of the radio play *Killing Him* refers to a friend named “Little Ruth” who died in the (\*) Holocaust. For 10 points, name this home country of Agi Mishol, Natan Zach, Yehuda Amichai and Amos Oz.**

ANSWER: State of Israel

**6. In the aftermath of this event, a series of meetings in the Golden Star Restaurant led to the creation of American Citizens for Justice. After Judge Charles Kaufman gave this crime's perpetrators only a three-thousand dollar fine, Helen Zia and Liza Cheuk May Chan led the fight for them to be tried at the federal level. This crime began when one participant yelled "It's because of you little motherfuckers that we're out of work!" in the Fancy Pants strip club, and ended with that victim being bludgeoned with a baseball bat in the parking lot of a McDonald's. The perpetrators of this crime were Michael Nitz and his stepfather, the (\*) Chrysler plant superintendent Ronald Ebens. For 10 points, name this 1982 murder of a Chinese-American resident of Highland Park, Michigan which catalyzed the modern, pan-ethnic Asian-American movement.**

ANSWER: The Vincent **Chin murder** [accept any answer about Chin getting attacked, beaten, or killed]

**7. The second movement of this composer's piano concerto incorporates the 'taps' melody to depict Abraham Lincoln's funeral train, and the first movement of that was inspired by Italian Futurist painting. This composer wrote a work for bassoon and chamber ensemble in which the bassoon depicts the death of the title character using the "Dies Irae" melody. Giancarlo Guerrero and the Nashville Symphony earned a 2011 Grammy for Best Contemporary Classical Composition for an album which featured this composer's *Deus ex Machina* piano concerto. He currently teaches at the University of Michigan, and this composer's only symphony closes with a "Red Cape Tango" and includes movements named "Lex" and "Krypton." For 15 points, name this American composer of *Dead Elvis* and the Superman-inspired *Metropolis Symphony*.**

ANSWER: Michael **Daugherty**

**8. This country is home to a longstanding machine politics system led by the zu'ama. Colonel William Higgins was captured and murdered in this country, which was home to the Movement of the Deprived. Elie Hobeika led a massacre at the Sabra and Shatila refugee camps in this country, which experienced a period of reform under Charles Helou and Fuad (\*) Chehab. It's not Spain, but in this country, the Phalangist president-elect Bashir Gemayel was assassinated in 1982. That event formed part of a larger civil war ended by the Taif Accords, and that war erupted due to increasing tension between Muslim refugees and this country's original Maronite Christian majority. For 10 points, name this Middle Eastern country home to Hezbollah.**

ANSWER: **Lebanon**

**9. Modu and Bakshu Khan founded this instrument's Lucknow *gharana*, one of its six *gharanas*. Dowels called *gatta* are used to control tension in this instrument's *tasma*, and different sections of this instrument include the *kinnar* and *maidan*. A series of one-syllable mnemonics for notes on this instrument are called *bol*, and are often recited in tandem with those strokes. According to a Hindi pun, it was invented when a (\*) *mridangam* broke by Sufi mystic Amir Khusro. A *Triple Concerto* for banjo, double bass, and this instrument features Zakir Hussain, whose father Alla Rakha frequently backed Ravi Shankar playing this instrument. It consists of the wooden dayan and the larger metal bayan. For 10 points, name this pair of Hindustani hand drums.**

ANSWER: **tabla** [anti-prompt on "bayan," "dayan," or "duggi"]

**10. One building in this city is home to the "Tower of the Lions" and the "Tower of Homage." The synagogue in this city's Jewish Quarter was at one point converted to a rabies hospital and was constructed by Isaac Moheb ben Ephraim, and underwent extensive restoration to celebrate the anniversary of the birth of Maimonides. This city is home to the Alcazar of the Christian Monarchs, which lies near the Guadalquivir River. Another building in this city is renowned for the striped red-and-white arches supported by the forest of columns in its hypostyle hall, and it's not (\*) Seville, but that building in this city also contains a Patio de Los Naranjos, or Court of Oranges. This city is home to twelve churches built under Ferdinand III of Castile. For 10 points, name this city in Andalusia, Spain, which was once ruled by a namesake caliphate and whose most prestigious building is its Grand Mosque.**

ANSWER: **Córdoba**

**11. During a storm, the protagonist of this movie goes through a hatch in a freight train, ending up in a pile of hay that cows are feeding on. In this movie, which is based on a novel by Eiko Kadono, a gust of wind knocks the protagonist into a tree with a crow's nest, causing her to be swarmed by crows calling her an egg-stealer. One character in this movie hates her grandmother's herring and pumpkin pot pie, which the protagonist helps make in a wood stove. A search for a missing (\*) cat toy causes the protagonist to run into the painter Ursula in a cabin in the woods. After finding the owner of a pacifier, the protagonist comes to live with Mrs. Osono in a bakery. After a dirigible called *The Spirit of Freedom* becomes unmoored, the title character borrows a broom to save Tombo after regaining her ability to fly and talk to her black cat, Jiji. For 10 points, name this 1989 Hayao Miyazaki film in which the title 13-year-old witch runs a service to carry packages.**

ANSWER: *Kiki's Delivery Service* [or *Majo no Takkyubin*]

**12. Aphorisms attributed to this man include "The more flesh, the more worms. The more possessions, the more worry." This sage instituted a law under which the court would take over responsibility for collecting debt on private loans even after the sabbatical seventh year, and that law was known as the *Prosbul*. The *Sifre* Midrash on Deuteronomy draws parallels between Moses's life and this man's. He claimed that the whole Torah could be summed up as (\*) "Do not do unto others as you would not have them do unto you," and that the rest was commentary. Along with a more conservative contemporary, this man was part of the last generation of the *zugot* during the second temple period. He is the namesake of a sandwich consisting of bitter herbs between two pieces of matzah. For 10 points, name this rival of Shammai, a Jewish sage who lends his name to a foundation for Jewish Life at university campuses.**

ANSWER: Hillel the Elder

**13. At one point, this object formed the centerpiece of Claudius Du Puy's museum, and it titles a 2008 book by Jonathan Fitzgibbons. Karl Pearson and G.M. Morant investigated the authenticity of this object, which Thomas Carlyle dismissed as "fraudulent moonshine." Later, this object was swindled from Samuel Russell by James Cox, and eventually came to rest at Sidney Sussex College, Cambridge. A storm knocked this object off of a wooden pole atop Westminster Hall in 1685, where it had stood for the past 25 years. Like similar objects belonging to (\*) John Bradshaw and Henry Ireton, it was separated from its owner posthumously at Tyburn. This object contained the brain which masterminded the victory at the Battle of Naseby and led the New Model Army. For 10 points, identify this body part which once rested atop the torso of the Lord Protector of England.**

ANSWER: Oliver Cromwell's head [accept "skull" in place of head, prompt on "Cromwell's head" or "Cromwell's corpse"]

**14. Blackledge et al. have suggested that three-dimensional variants of these devices serve a defensive role against predation from mud-dauber wasps. Many inner parts of these devices are made with flagelliform glands, while outer portions are made with the major ampullate glands. These devices may include decorations called stabilimenta, many of which reflect ultraviolet light. Some crazy NASA scientists examined how these structures are made under the influence of various drugs. Literary examples of these include ones that say "Some pig" and "Radiant." These structures, woven with (\*) spinnerets, may include sections made of a sticky material to capture insects and other prey. For 10 points, name these structures often shaped like funnels or orbs created out of silk by a certain group of arachnids.**

ANSWER: Spider webs

**15. This artist mused on "where I fit in this odd geometry of time" and covered some of her works in correction fluid and writing in *Some Disordered Interior Geometries*. In one work, her tutor Sloan lifts herself from a doorway, and in another, this artist wears a cable-knit sweater as her hair obscures her face and her hand pulls on the shutter cable. That "Self-portrait at thirteen" prefigured a photograph by this artist in which three nude women hold a picture of the artist's face in front of their own faces. This artist created a series of photographs in which a body is shown next to a bowl with a coiled (\*) eel. This photographer throws her arms up and points her face back toward the camera in her "On being an angel" series. For 10 points, name this photographer perhaps known for her blurred, angelic female nudes, and for throwing herself out a window at 22.**

ANSWER: Francesca Woodman

**16. The Toromo Agency produced many of these weapons for the Damocles fortress, but was stymied by the invention of a countermeasure which must be activated in 19 seconds. One failed attempt at deploying these weapons occurred when the Ganymede frame at Ashford Academy was equipped with a makeshift one to avenge the death of Princess Euphemia.** The first of these weapons were made with sakuradite initially provided by Lloyd Asplund. Compelled by Lelouch's command to live, (\*) Suzaku Kururugi fired one of these weapons, obliterating Tokyo's government complex, but not the ship which holds Nunnally Lamperouge. For 10 points, name this weapon of mass destruction developed by Nina Einstein in *Code Geass*.

ANSWER: F.L.E.I.J.A. [or Field Limitary Effective Implosion Armament]

**17. This paper discusses how the model inherent in the word "cause" once implied that every action was completed by some person. In distinguishing between the concepts of freedom and responsibility, this paper claims that freedom means only that an action is not unfree. It explains two different uses of adverbial expressions by contrasting sentences such as "He trod clumsily on the snail" and "He clumsily trod on the snail." It suggests the dictionary, the law, and psychology as three resources to study the title phenomena, using the case study of *Regina v. Finney* in which the defendant was accused of scalding Thomas Watkins to death.** This paper rebuts the "Loose Usage" and "Last Word" objections to the use of ordinary language in philosophy. It begins by distinguishing the title claims from (\*) justifications based on whether responsibility is accepted. For 10 points, name this essay in which J. L. Austin applies the principles of ordinary language philosophy to the title attempts at evading responsibility.

ANSWER: "A Plea for Excuses"

**18. This singer described how his mother's Chevrolet broke down and how he prayed it would never be fixed or be found in a song which ends by repeating "I was ashamed of her." One of this man's songs opens with the notes A-F-sharp-C-G-E-B played on the vibraphone before the entrance of the strings. This singer exclaimed "Oh I am not quite sleeping / Oh, I am fast in bed," and another song describes a serial killer who dressed up like a clown. This singer of "Romulus" included "The Predatory Wasp of the Palisades is Out to Get Us!" and "John Wayne Gacy, Jr." on another album. This creator of the album *Seven Swans* is the co-founder of (\*) Asthmatic Kitty Records, and he sang of how "I made a lot of mistakes / in my mind" in a song which repeats "You came to take us / all things go, all things go." For 10 points, name this creator of the abortive 'Fifty States Project,' an American songwriter who included "Chicago" on his album *Illinois*.**

ANSWER: Sufjan Stevens

**19. The earliest primary account of this leader's rule comes from the Swiss surgeons Rengger and Longchamp, who recounted their time as prisoners under him. This leader required all prostitutes to wear gold combs in their hair after catching one of his illegitimate daughters soliciting men outside his palace. This leader captured the French botanist Aimé Bonpland in order to maintain his monopoly on yerba mate.** He established the prison colony of Tevego, and his rule was later fictionalized in a novel in which he considers his approaching death in the company of his secretary Policarpo Patiño. This man was the first in a long line of dictators in his country that was continued by (\*) Carlos Antonio Lopez and Francisco Solano Lopez. For 10 points, name this first *caudillo* of Paraguay, who inspired Augusto Roa Bastos's *Yo El Supremo*.

ANSWER: Jose Gaspar Rodriguez de Francia

**20. This man impressed Verdi by adding an allargando to his interpretation of Verdi's *Te Deum*. Virgil Thomson compared this man to Felix Mendelssohn and criticized him for sacrificing clarity though his use of the "wow technique." He conducted various national anthems and Verdi's *Hymn to the Nations* for an Academy Award-nominated documentary short. After repeatedly refusing to conduct *Giovinezza*, this conductor was beaten up by a group of blackshirts. This conductor conducted the premieres of *La Boheme* and *Pagliacci*, and following the premiere of (\*) *Turandot*, he noted that "here death triumphed over art." In 1937, he became conductor of the NBC Symphony Orchestra, where he gave world the premiere of Samuel Barber's *First Essay* and *Adagio for Strings*. Noted for his skill at interpreting scores and his photographic memory, for 10 points, name this Italian conductor who served as music director of La Scala for eighteen years.**

ANSWER: Arturo Toscanini

**21. According to one story, this man gave a medallion bearing an etching of a menorah to a Jewish man he had earlier comforted on Hanukkah. One account states that a Native American chief declared to this man that he would never die in battle, an episode recalled in a David Barton book whose title describes this man as bulletproof. Ronald Reagan invoked the image of this man kneeling in prayer amidst the snow as a “most sublime picture.” Many of the stories surrounding this man were first discussed by (\*) Parson Weems in an 1800 book on his life. This man’s step-grandson reported that he threw a rock the size of a silver dollar across the Rappahannock River. For 10 points, name this historical American politician often believed to have wooden teeth and to have said “I cannot tell a lie” after chopping down a cherry tree.**

ANSWER: George Washington

**22. Kazamaki’s condition can be used to demonstrate that a Doleans-Dade exponential is one of these, generalizing Novikov’s condition. Its integrals can be defined at most over a class of constructions which can be decomposed into a local cadlag one of these and an adapted cadlag finite process. The optional stopping theorem concerns expectations about these kinds of processes. The Azuma-Hoeffding inequality provides a probability bound for these processes with bounded differences, which yields the method of bounded differences when applied to a kind of these named for Joseph (\*) Doob, who along with Paul Levy was a pioneer in the study of these processes. Named for a kind of betting strategy which involves doubling bets each turn, for 10 points, name this type of discrete stochastic process whose expected future value equals its present value.**

ANSWER: martingales [accept semimartingales or supermartingales, I guess]

**23. This musician backed Michael Stipe as the lead guitarist on the Golden Palominos song “Boy (Go).” One song this musician recorded with his wife laments that “The cruel country has driven me down / Teased me and lied, teased me and lied.” This singer and that wife released the album *Pour Down Like Silver* shortly after converting to Sufism. One song by this singer discusses women who “stab you in the back with a kitchen knife,” while another is about a man who “hides like a child” and “moves through the night.” This man included “Withered and Died” on (\*) *I Want to See the Bright Lights Tonight* after leaving a band whose other members included Dave Swarbrick and Sandy Denny. In one of his songs, the dying James hands Red Molly the keys to the title motorcycle, a “1952 Vincent Black Lightning.” For 10 points, name this British singer-songwriter who recorded the album *Shoot Out the Lights* and was the original lead guitarist of Fairport Convention.**

ANSWER: Richard John Thompson

**24. One ruler of this dynasty chose a bride for her son from thirteen beauty pageant contestants, and that ruler created the personal *Vigla* guard. One ruler of this dynasty repulsed a siege by Maslama and promulgated the *Ecloga* code. Another ruler of this dynasty was mockingly given an epithet meaning “dung-named” by his enemies, and employed the help of Patrikios in repairing the Aqueduct of Valens. That ruler created a group of elite regiments called the *tagmata*, only to be briefly overthrown by one of their leaders, (\*) Artabasdos. The last ruler of this dynasty convened the Second Council of Nicaea, which ended a ban imposed by this dynasty’s founder, and that woman was later overthrown and exiled to Lesbos. Including Constantine V, for 10 points, name this dynasty founded by Leo III, which ruled the Byzantine Empire for most of the 8th century and included the empress who restored the worship of icons, Irene.**

ANSWER: Isaurian Dynasty [or Syrian Dynasty]

**25. This poet addressed the “Challengers of Oblivion” in a poem which compares sculpting to poetry and notes that “Stones have stood for a thousand years, and pained thoughts found / The honey peace in old poems.” One of this author’s characters has a religious vision while trying to cross a ford with her mare Dora, and this author of “The Stone Cutters” compared the growing power of government to a net dragging in fish. A narrative poem by this author features Johnny and his wife California, who comes to identify the title animal with God, and this poet described how “America settles in the mold of its vulgarity, heavily thickening to (\*) empire” in another work. Many poems by this author of “The Purse-Seine” were inspired by the area around his home at Tor House and Hawk Tower, which overlook the Pacific Ocean. For 10 points, name this Californian poet of *Roan Stallion* and “Shine, Perishing Republic.”**

ANSWER: Robinson Jeffers

**26. Gilbert Jessop achieved this feat without a single maximum during an Ashes match. The first person to achieve this feat is thought to be John Minshull, and in 1775 John Small became the first to achieve it in a major match. Jack Hobbs accomplished this feat 199 times to set the first-class record for it. Brian Lara is the only player to achieve the “quintuple” version of this feat. Although Shahid Afridi has three out of the seven fastest achievements of this feat, Chris Gayle holds the record for having achieved it in 30 balls during an Indian Premier League game. The “nervous (\*) nineties” refers to the anxiety one may feel upon approaching this achievement. The first player to get one hundred of these in international play was Sachin Tendulkar. For 10 points, name this achievement in cricket in which a batsman scores at least one hundred runs in an inning.**

ANSWER: Century

**27. Turquoise pumps are surrounded by orange tiles in the pumphouse of this city’s Art Deco-style R. C. Harris Water Treatment Plant. This city’s Romanesque revival Old City Hall lies across Bay Street from a dome surrounded by two half-cylinders of unequal heights, which form this city’s Viljo Revell-designed current City Hall in Nathan Phillips Square. An art museum in this city has a flat glass and blue titanium back face punctuated by a spiral staircase overlooking Grange Park, designed as part of a renovation by Frank Gehry. Oscar Peterson Square is the courtyard of a cluster of buildings designed by Ludwig Mies van der Rohe on a granite plinth, the (\*) TD Centre. In this city’s midtown, E. J. Lennox designed Casa Loma for Sir Henry Mill Pellatt. For 10 points, name this city in which Daniel Libeskind designed a spiky addition to the Royal Ontario Museum.**

ANSWER: Toronto

**28. This is the lowest order of angels in the second sphere of the Pseudo-Dionysian celestial hierarchy. John Gaventa’s analysis of this concept in Appalachia borrows Steven Lukes’s three-dimensional articulation of it. In one film with this title, Denzel Washington plays Arnold Billings, who comes into conflict with Richard Gere-played Pete St. John. Michael Foucault joins this word with knowledge to signify that the goals of the two concepts are the same. Joseph Nye is a proponent of the “soft” kind of this, which is less coercive than the “hard” kind. In statistics, this is equal to one minus the probability of (\*) type II error, while in physics, this quantity’s integral with respect to time is work. Nietzsche describes the “will to” this as the main driving force in human psychology. For 10 points, name this stuff that names a Kanye West song that says that no one man should have all of it.**

ANSWER: power [accept authority until “Gaventa”]

**29. In A.S. Byatt’s *Possession*, this place titles a poem by the fictional author Christabel Lamotte. An opera set in this place introduces the characters of Rozenn and Karnac and includes the aria “Vainement, ma bien aimee.” The king of this place wore a key around his neck which his daughter tried to steal and give to her lover, the Devil. This place is the setting of an opera titled for the “King of [It]” written by Edouard Lalo. That king, who is usually called (\*) Gradlon, threw his daughter Dahud into the ocean to stop the oncoming disaster but was unable to save the rest of this place’s inhabitants from drowning. According to legend, the bells of this city’s cathedral can still be heard on calm days. For 10 points, name this legendary sunken city off the coast of Brittany.**

ANSWER: Ys

**30. Ernst von Ruchel arrived late at this battle, at which Kalkreuth sent troops to recapture the flank at Poppel. In this battle, Marshal Lannes rescued Ney’s cavalry after a premature charge. The heavy fog during the morning of this battle caused General Hohenlohe to delay his attack, and this battle was preceded by two smaller skirmishes at Saalfeld and Schleiz. Charles William Ferdinand, Duke of Brunswick was mortally wounded at this battle, and Carl von Clausewitz was taken prisoner following it, an experience which later spurred many of his reforms. (\*) Hegel is said to have called this battle “the end of history” and completed *The Phenomenology of Spirit* while it was raging outside his university. Fought on the western bank of the River Saale, for 10 points, name this 1806 battle of the War of the Fourth Coalition which allowed Napoleon to occupy Prussia, and which saw fighting at two different towns on the same day.**

ANSWER: Battle of Jena-Auerstedt [accept either, the two towns are close enough]

**31. One character in this novel claims to be descended from the legendary Morgan ap Kerrig, and that character's son becomes a hero after tending to the survivors of a shipwreck. Another character keeps many birds which she claims will be released on the Day of Judgment. That character, Ms. Flite, lives above the greedy Mr. Krook, who dies of "spontaneous combustion." Another character sneaks out of Chesney Wold in disguise to uncover the truth about her former lover, and the central family in this work is strained to the breaking point as (\*) Richard Carstone fails to support himself and Ada Clare. Previously, the death of a man known only as "Nemo" leads Mr. Tulkinghorn to discover that Lady Dedlock is the mother of Esther Summerson. For 10 points, identify this novel centering on the endless court case of *Jarndyce and Jarndyce*, a work of Charles Dickens.**

ANSWER: **Bleak House**

**32. Gilpin and Soule introduced four different kinds of vortices through which this process can occur. The four stochasticities can increase the likelihood of this occurrence, whose probability is evaluated in PVA. In neutral models, this process joins speciation and dispersal limitation as one of the processes that creates differences in species composition. In island biogeography theory, species number is determined as the equilibrium between colonization and this process. Gause's law of (\*) competitive exclusion states that if two species occupy the same niche, either a species's niche will change or one species will undergo this process. Major drivers of this process today include the introduction of invasive species and habitat loss. For 10 points, name this kind of event for which endangered species are at risk, which occurs when a species's population becomes zero.**

ANSWER: **extinction** [accept word forms]

**33. In a sculpture made by this woman, a Breton woman holds a boy who was caught and drowned in fishing nets. This creator of *Après la tempête* designed an inkwell that depicts herself as a sphinx. A portrait of this woman in a white dress holding a statuette won Jules Bastien-Lepage the cross of the Legion of Honor. This woman performed the title role of the two minute-long film *Le Duel d'Hamlet*. Neckbearded Redditors everywhere ought to celebrate this actress for popularizing a kind of felt hat in the title role of Victorien Sardou's *Fedora*, and this actress also opened a theater named after herself with the title role of Sardou's *La Tosca*. (\*) Alphonse Mucha made posters for this actress's roles in such plays as *Medee*, *La Dame aux Camélias*, and *Gismonda*. For 10 points, name this spectacularly famous French actress of the Belle Époque.**

ANSWER: Sarah **Bernhardt**

**34. One genre of paintings depicting one of these figures depicts him on a purple cloud, and such paintings were carried into the dwellings of people near death. The only extant sculpture of Jocho depicts one of these beings. One of these figures sits at the center of the Taizokai mandala, which forms part of a kind of mandala depicts the five *dhyani* kinds of these figures in different colors and directions, and one of these figures is central to the *raigoku* genre. Many *jatakas*, which depict the lives of one of these people, are painted in the (\*) Ajanta Caves, one of which shows him flanked by Vajrapani and Avalokiteshvara. For 10 points, name this type of religious figure who may be depicted attaining *nirvana*.**

ANSWER: **Buddha** [accept any answer containing "Buddha"]

**35. Nikulas was turned to stone while searching for this place. This place is described in a series of correspondences between Rolf the Large and Felga Four-Fingers, and this place is the subject of a "Re-examination" by Beridette Jastal. Kodlak Whitemane travels to this place when he is purged of the beast spirit within him, and this place contains a large bridge made of whalebone which is guarded by Tsun. This location can be reached through a portal at (\*) Skuldafn, which is reached by flying on Odahviing. Here, the player is joined by ancient heroes including Felldir the Old and Hakon One-Eye for the final battle against Alduin. For 10 points, name this home of the honored Nord dead in *The Elder Scrolls V: Skyrim*, based on Valhalla from Norse Myth.**

ANSWER: **Sovngarde**