# PARFAIT III Round 9 

Princeton

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## 1 Princeton Tossups, Round 9

1. The victorious general demanded unconditional surrender due to fears of of General Henry Clinton's imminent advance. Backed by Enoch Poor and Ebenezer Learned, rifles under Daniel Morgan harassed Simon Fraser's lines early on in this battle. On October seventh, a British reconnaissance mission was beaten back by troops under Benedict Arnold at Bemis Heights, and this was after an initial engagement in which the British failed to break through to Albany at Freeman's Farm. For ten points, British General John Burgoyne lost what decisive battle to Horatio Gates in 1777, a battle often called the turning point of the American Revolution?

## Answer: Battle of Saratoga

2. In one tale, she cut off her breast as an offering, but it was turned by Shiva into the Bael fruit. Her forms at various times have included Padma and Dharani, when her husband was the dwarf Varana and the warrior Parasurama, respectively. In more famous tales, she took the form of Sita, wife of Rama, and Rukmini, wife of Krishna, to follow avatars of her husband. Often depicted smiling and sitting on a lotus, this is, for ten points, what wife of Vishnu and Hindu goddess of wealth and fortune?

## Answer: Lakshmi or Sri

3. Copies of it include an arch in Antwerp celebrating the entrée of 1593, Linschoten's Itinerario, and the west portal of the cathedral at Pisa; Dalí sculpted a version dressed in lace. Its model fought an elephant in Portugal before it died in a shipwreck as it was being sent to Leo X . The top of the woodcut describes it as covered in thick shells and posessing a single horn, unlike African versions. For ten points, name this oft-copied but anatomically incorrect depiction of an animal by Albrect Dürer.

## Answer: Dürers Rhinoceros

4. Percy Cato is a friend of this author's character Willie, whose central question is "why is my middle name Sommerset." Ferdinand represents this author's conception of the post-colonial African who moves beyond the racial divide that prevents Zabeth from ever fully trusting Selim. In one of his better known works Mohun attempts to find belonging and shelter with the Tulsi family, echoing the themes of identity in the aforementioned Half a Life, A Bend in the River, and A House for Mister Biswas. For ten points each, name this Indo-Trinidadian British writer.

## Answer: Vidiadhar Surajprasad Naipaul

5. Writings like "The Theory of Risk Aversion" were published in his collection, Essays in the Theory of Risk Bearing. In his PhD dissertation, he produced the first rigorous proof of the existence of a market clearing equilibrium, later presented in the book Social Choice and Individual Values. With McKenzie and Debreu, his name is attached to an important model, and his most famous result involves conditions of unrestricted domain, non-imposition, monotonicity, non-dictatorship, and independence of irrelevant alternatives, and earned him the 1972 Nobel Prize in economics. For ten points, name this American economist, most famous for his Impossibility Theorem.
Answer: Kenneth Joseph Arrow
6. He served as a military tribune, quaestor in Transalpine Gaul, and plebeian tribune early in his career and was born in 157 BCE. According to legend, as a teenager, he found an eagle's nest with seven chicks, which was later seen as an omen predicting his election to the consulship an unprecedented seven times. For ten points, name this Roman well known for his military campaigns and reforms, a novus homo, popularis, uncle by marriage of Julius Ceasar and rival of Sulla.

## Answer: Gaius Marius

7. In the south, overlooking Keppel Harbor is Mount Faber, which is less than two hundred feet shorter than this nation's tallest point, Timah Hill, at a towering five-hundred and thirty one feet. In the southwest is Jurong Island, fused together from about seven smaller islands and restricted to approved personnel. The Jahore Strait separates it from the mainland, while the Riau-Lingga Archipelago extends to near Sentosa and Bukum islands, where its namesake strait separates it from Indonesia. With a population density of over 15,000 people per square mile, its the most densely populated independent nation in Asia. For ten points, name this nation at the tip of Malaysia in southeast Asia.
Answer: Republic of Singapore or Republik Singapura or Xinjiapo Gongheguo
8. The second section of this work features a two-bar oboe solo joined by strings and woodwind followed by a cello solo with the same theme, echoing this artist's The Invocation. The first section has a massive horn crescendo at bar 45 after a 40 bar tam-tam introduction and is written in an unusual 5/4 time signature. The seventh and final section is subtitled "The Mystic," and is also in an unusual time signature like the first, "The Bringer of War." For ten points, name this orchestral suite by Gustav Holst.
Answer: The Planets
9. The fourth chapter begins in dactylic hexameter as the protagonist attempts to sublimate his urges. The protagonist was disquieted by a "foreigner" in a Byzantine funeral hall and an old man on the boat to the title location who wore a wig and licked his lips suggestively. While in that city, he thinks of it as "that primeval island-jungle, among whose bamboo thickets the tiger crouches," which is only confirmed when he is informed by an English hotel clerk that there is a cholera epidemic. The lecherous love for Tadzio consumed Gustav von Aschenbach in, for ten points, what novel by Thomas Mann set in Italy?
Answer: Death in Venice or Tod in Venedig
10. Portugal's claims to the banks of the Amazon were recognized, and it created the exclaves of Neuchatel for Prussia and Milan for Austria, both near Switzerland. St. Kitts was ceded to Britain by France, and Minorca and Gibraltar were ceded to Britain by Spain, which also agreed to give the British a major slave provision contract. France retained Cape Breton Island and Prince Edward Island but ceded its claims on the Hudson Bay Company territories to Britain. Britain also agreed to protect Catalonia, which had supported Charles of Austria and the continuation of the Habsburgs rather than Philip V. For ten points, name these 1713 treaties that established Bourbon rule of Spain, thus ending the War of the Spanish Succession.
Answer: Treaty of Utrecht
11. Article 121 states that bastards have the same rights as children born in wedlock, and Article 148 states that all high school graduates must be given a copy of it upon graduation. All citizens are guaranteed work, and Article 171 made all railways and waterways state property. Article 48 was used to suspend Articles 144-188 "in defense against Communist violence against the state" after the Dutch Marinus van der Lubbe was arrested for a 1933 fire. Drafted by Hugo Preuss with the help of Max Weber, its legitimacy was effectively ended by the outlaw of all parties except the NSDAP. For ten points, name this constitution of Germany drafted in a small town in Thuringia after World War I.
Answer: Weimar constitution or Constitution of the German Reich or Weimarer Verfas or Die Verfassung des Deutschen Reiches (prompt on partial answer)
12. The value of this with Henri Tresca's name is attached to it is given by the largest difference between the principal components of it, found using Mohr's circle. Pascal's law states that in a fluid, it is equal in all directions and thus can be considered a scalar. For materials, the point at which further application of this results in inelastic deformation is called the elastic limit, and the derivative of it with respect to strain is given by Young's modulus. For ten points, name this measure of force per unit area within a body, which can be divided into shear and normal varieties.
Answer: stress (there are many words that can go in front of stress and be right)
13. After being advised not to include donuts on a list of five things she can't do without on an Internet dating site, she replies to the NiceGuy47's question "do you like bowling" with "I like blowing." All of the her other replies come from Amanda Tanen under the pseudonyms "I like Tacos," who is actually the daughter of Fey Sommers and enlists Marc St. James to help capitalize on the fame. Employed by Daniel Meade and Mode, for ten points, name this character played by America Ferrera, the title character of a an ABC television show.

## Answer: Ugly Betty or Beatriz Suarez

14. It was famously investigated by Roger Apéry, and its reciprocal can be written as a Dirichlet series over the Möbius function. Expanding it about the point $s=1$ ("s equals 1 ") yields the Stieltjes constants, and up to a constant of proportionality, it is equal to the Dirichlet L function for the primitive character. It is not known whether its value at $\frac{1}{2}$ can be written in terms of known constants. Notably, it can be expressed as a product over primes, its Euler product. For ten points, what is this function, whose non-trivial zeros should lie only on the "critical line" of real part $\frac{1}{2}$, if you believe its namesake's hypothesis.
Answer: Riemann zeta function (prompt on just "zeta" or "zeta function")
15. 1947's The Path to the Nest of Spiders was inspired by his service in his country's Resistance. In Europe, many consider his finest work to be The Baron in the Trees, about the young Italian nobleman Cosimo Piovasco di Rondòò, who climbs a tree to defy his parents and remains there for the rest of his life. The story of a man cut into a good and bad half by a cannon shot is told in his The Cloven Viscount. For ten points, name this Italian writer of realistic fantasy, most well known for his works Invisible Cities and If on
a Winter's Night a Traveler.
Answer: Italo Calvino
16. This god once turned the huntress Arge into a doe for claiming to be as fast as him, and Heracles sailed across the ocean in a goblet given to him by this god. Once, under the command of Zeus, he performed a miracle which helped Atreus win a throne from Thyestes, and when Aphrodite carried out her affair with Ares, it was this god who saw and informed Hephaestos, earning him the epithet "Panoptes", or all-seeing. In another story, he promised to grant any request to his son Phaëthon, who then set the earth on fire when allowed to drive his chariot. For ten points, name this Greek god of the sun.
Answer: Helios
17. About $48 \%$ of the genome of human beings is composed of these and their defunct remnants, and porphyria, Duchenne muscular dystrophy, hemophilia, and predisposition to cancer can all be caused by them. The first of them to be molecularly isolated was from a snapdragon plant but they were discovered in 1948 in maize by 1983 Nobel Prize winner Barbara McClintock. For ten points, name these sequences of DNA that can move around to different positions within the genome of a single cell, also called "jumping genes."
Answer: Transposons (prompt on "jumping genes" before mentioned)
18. If you count a series about a ghostly costume ball, a picture that talks to Hutchinson, Lady Eleanore's plague-connected mantle, and "Old Esther Dudley" as a single story called "Legends of the Province-House," then there are a total of thirty-nine. First published together at the recommendation of Horatio Bridge, the author's classmate at Bowdoin, one concerns a group of four who resolve to make a pilgrimage to Florida after they return to old age in "Dr. Heidegger's Experiment," and another concerns the secret guilt of a clergyman in "The Minister's Black Veil." So named because all of the works had been previously published in magazines or annuals, this is, for ten points, which collection of short stories by Nathaniel Hawthorne?
Answer: Twice-Told Tales, but accept "Legends of the Province-House" on early, prompt on "Stories of Nathaniel Hawthorne"
19. His name and a Swedish collaborator is applied to an equation giving fraction of elastic scattering in X-Ray diffraction experiments. In addition to collaborating with Ivar Waller, he and his professor introduced the notion of elliptical molecular orbits; he also explained the effect of molecular dipoles, which are measured in units named after him. With a student, he developed a theory of the structure of anisotropic fluids. Similarly, both his and Erich Hückel's names are also attached to a method of determining ion activity which uses his namesake screening lengths. For ten points, name this Dutch scientist who won the Nobel prize in 1936.

## Answer: Peter Joseph William Debye

20. Having joined the U.S. army in 1902, he became an aide-de-camp to General John Pershing in 1919 and Army Chief of Staff the day the Germans invaded Poland. He became Secretary of Defense in 1950, but is best known for establishing a policy first outlined in a Harvard graduation speech designed to "assist in the return of normal economic health to the world." For ten points, name this Secretary of State under Truman who helped
rebuild Europe with his namesake plan.
Answer: George Marshall
21. Transvaluation of all values is a central concept in this work, saying that the West, is "hostile to life" because it inverts human nature. Within the work, it is argued that Christianity compares unfavorably with Buddhism, as Christianity is the "struggle against sin" while Buddhism is the "struggle against suffering," arguing that humans are inclined naturally towards sin and that to combat suffering is a "better" pursuit. The elevation of decadent values by the Christian Church is also detrimental, the author says, and the embrace of the pitiful further deteriorates the value of the religion. For ten points, this describes which 1888 work of Nietzsche with a very fitting name?
Answer: Der Antichrist (The Antichrist)

## 2 Princeton Bonuses, Round 9

1. Answer the following about some related organelles for ten points each.

10 Believed to originate from endosymbiotic cyanobacteria, this class of organelles is responsible for photosynthesis and storage, and they are only found in plants and algae. Chromoplasts, which synthesize and store pigment, are a prime example.
Answer: plastids
10 Lacking pigments, this category of plastids can specialize into storing starches, proteins, or lipids, where it would become an amyloplast, proteinoplast, or elaioplast, respectively.

## Answer: leucoplasts

10 The best known plastid is this organelle, which is responsible for photosynthesis. Answer: chloroplast
2. For ten points each, answer these questions about the European Union.

10 This 1957 treaty established the European Economic Community, a key predecessor to the European Union.

## Answer: Treaty of Rome

10 This most recent EU member to join the euro currency bloc will also hold the Council of the EU presidency in the first half of 2008.
Answer: Slovenia
10 Countries are required to meet this set of standards, formulated in 1993, in order to join the European Union. They include stability of institutions, rule of law, human rights, etc.
Answer: Copenhagen Criteria
3. For ten points each, identify some people who lived around 300 BCE in and around the Near East.

10 He served with distinction in Alexander's Indian campaign, and was given the Babylonian Satrapy in the Treaty of Triparadisus after Alexander's death, founding an empire that bore his name.

## Answer: Seleucus I Nicator

10 In exchange for 500 elephants, Seleucus' easternmost territories and possibly his daughter were handed over to this emperor, who is thought to be the first person to have unified most of the Indian subcontinent.
Answer: Chandragupta Maurya
10 Chandragupta's son and successor Bindusara reputedly asked this son and successor of Seleucus for wine, figs, and a philosopher. He informed Bindusara that philosophers were not for sale.
Answer: Antiochus I Soter
4. You may know how the world ends in Norse mythology, but do you know how it began. For ten points each...

10 The void that existed between Niflheim and Muspellheim before Heaven and Earth were formed was known by this name.
Answer: Ginnungagap
10 The first being formed in Ginnungagap was this frost giant and ancestor of the gods. Answer: Ymir

10 After he was killed by Odin and his brothers, Ymir's body was used to create this world, where humans live.

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Answer: Midgard
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5. Tired of WWI ambulance drivers? Answer the following about a real man who violated British neutrality by serving as a horse-drawn ambulance driver during the FrancoPrussian war for ten points each.

10 First, name this man who gained fame later by winning the Battle of Omdurman. Answer: Herbert Kitchener

10 Despite this bravery, Kitchener was a sissy by not for not starting a war over this incident when French troops under Marchand tried to take a fort in Sudan.
Answer: Fashoda incident
10 Kitchener followed Lord Roberts as supreme commander in this brutal war against the Afrikkaners and instituted concentration camps and a scorched earth policy.
Answer: Second Boer war (prompt on Boer)
6. For ten points each, identify these notable books from South America.

10 Subtitled "Civilization and Barbarism," this 1845 book by Argentine Domingo Sarmiento tells the story of an archetypal Latin American caudillo.
Answer: Facundo
10 The lead female characters in this Isabel Allende book - Clara, Blanca, and Alba all have names roughly translating to "white."
Answer: House of the Spirits or La casa de los espiritus
10 There is no narration to this story that consists primarily of the dialog between the homosexual Molina and the political prisoner Valentiín.
Answer: Kiss of the Spider Woman or El beso de la mujer araña
7. For ten points each, identify these 20th century political philosophers.

10 This Austrian-British thinker warned of the dangers of planning in his famous 1944 work, The Road to Serfdom.
Answer: Friedrich August von Hayek

10 This man provided a more subtle defense of free markets in his most famous work: Capitalism, Socialism, and Democracy, and his known for his work on business cycles.

## Answer: Joseph Schumpeter

10 This contemporary of Hayek and Schumpeter and originator of substantivism argued that the development of market economies went hand in hand with development of the modern state.
Answer: Karl Polanyi
8. Answer the following related to a work of children's literature for ten points each.

10 One of the most famous German children's books is this collection of short stories by Heinrich Hoffman which features children facing terrible consequences for misbehavior.
Answer: Der Struwwelpeter (Accept: Shaggy Peter)
10 Der Struwwelpeter [STROo-VULL-PAY-TUH] bears a strong resemblance to this 1964 Roald Dahl book with its harsh punishment of children who misbehave, like Veruca Salt being thrown down a garbage chute by squirrels.
Answer: Charlie and the Chocolate Factory
10 Der Struwwelpeter's most famous English translation is by this well-known author of The Gilded Age: A Tale of Today.
Answer: Mark Twain (Samuel Clemens, etc.)
9. For ten points each, identify these rivers.

10 It meets the Atchafalaya at Baton Rouge after serving as the Texas-Oklahoma border.
Answer: Red River
10 This longest river in Canada flows from the Great Slave Lake northward to the Arctic Sea.
Answer: MacKenzie River
10 This second longest river in Australia forms most of the border between Victoria and New South Wales before reaching its mouth near Adelaide.
Answer: Murray River
10. For ten points each, answer these questions about Lincoln's assassination.

10 Lincoln's assassination was part of a conspiracy that also aimed to assassinate Vice President Johnson and this man, who negotiated the purchase of Alaska.
Answer: Secretary of State William Seward
10 After John Wilkes Booth escaped, his injuries were attended to by this Maryland physician.
Answer: Samuel Mudd

10 Booth was accompanied to Mudd's home by this friend and co-conspirator, a Maryland native.
Answer: David Herold
11. For ten points each, identify works given the names of three characters. Five points if you need the author.

10 Count Pococurante, The Abbé of Perigord, Pangloss
5 Voltaire
Answer: Candide
10 Dorothea Brooke, Tertius Lydgate, Edward Sasaubon
105 George Eliot
Answer: Middlemarch
10 Jorge of Burgos, William of Baskerville, Adso of Melk
105 Umberto Eco
Answer: Name of the Rose or Il nome della rosa
12. For ten points each, identify these geological time periods.

10 This final eon of the Precambrian supereon was marked by the transition to an oxygenated atmosphere, the hypothesized Snowball Earth, and the first documented multicellular life.
Answer: Proterozoic
10 Between the Devonian and Permian periods was this period in which conifers appeared, often sub-divided into Mississippian and Pennsylvanian epochs.
Answer: Carboniferous
10 This first epoch of the Quartenary period lasted from roughly 5 to 2 million years ago, when ended by mass marine extinctions that may have been caused by a supernova.
Answer: Pliocene
13. For ten points each, identify these operas.

10 A one-act opera set in Sicily, this is Pietro Mascagni's most famous work.
Answer: Cavalleria Rusticana
10 Often performed with Cavalleria Rusticana, this opera was conducted by Arturo Toscanini at its 1892 Milan premiere.
Answer: I Pagliacci
10 This Handel opera largely set in Milan tells the story of a namesake queen, and her husband who retakes the usurped throne of Lombardy.
Answer: Rodelinda
14. It features a far-away town in the upper left, numerous sailing vessels in the water, and a red-shirted plowman up close to the viewer.

10 For ten points, this is what painting by Peter Brueghel the Elder, in which the title action occurs unnoticed in the lower right.
Answer: Landscape with the Fall of Icarus or De Val van Icarus
10 What American poet drew on Breughels painting to pen a poem of the same name? He is more famous for such works as "The Red Wheelbarrow" and "This is Just to Say".
Answer: William Carlos Williams
10 English poet W.H. Auden was inspired to write this poem based on Breughels masterpiece, named for the paintings location.
Answer: Musée des Beaux-Arts
15. For ten points each, answer the following about an English novel.

10 Stevens, a butler, dedicated his life to serving the now deceased Lord Darlington. He also tries to unravel the nature of his past relationship with Miss Kenton while working under Jack Lewis, his new employer, in this novel.
Answer: The Remains of the Day
10 This Japanese-British author of A Pale View of Hills also wrote The Remains of the Day. Answer: Kazuo Ishiguro

10 Another Lord Darlington also plays prominently in this playwright's Lady Windermere's Fan.
Answer: Oscar Wilde
16. Although Einstein abandoned it after its initial formulation, the discovery of cosmic acceleration has again made it seem plausible. For ten points each...

10 Identify this constant, usually denoted by a capital lambda.
Answer: Cosmological Constant
10 Einstein originated the cosmological constant to explain the possibility of a stationary universe, but abandoned it after this discovery of Hubble's and Humason's that suggested the universe was not static.
Answer: Redshift of a body's light is proportional to its distance (Prompt on Hubble's Law, accept anything with redshift)
10 Another possible explanation for the accelerating universe is this hypothetical form of dark energy. It is also another name for aether as it was the "fifth element."
Answer: quintessence
17. His contributions helped lead to the permanence of Sociology as a field. For ten points each...

10 Identify this Frenchman, the author of The Division of Labour in Society and Rules of Sociological Method.
Answer: Émile Durkheim

10 Perhaps Durkheim's most influential text was this 1897 work, which was a case study of several instances of the titular act. He differentiated 4 different types.
Answer: Suicide
10 Durkheim defines this type of suicide as occurring when social regulation is completely ingrained in the individual and he or she feels that suicide the only way to escape the state and the oppressiveness of society.
Answer: Fatalistic Suicide
18. Motörhead has a pair over the second o and Mötley Crüe has two pairs in their name. For ten points each, answer these questions about the "diacritical mark of the beast."

10 The rock dots phenomenon was likely started by this band, whose capital O contains an umlaut. Theyre best remembered for songs like "Burnin For You" and a song that needs more cowbell, "Dont Fear The Reaper."
Answer: Blue Öyster Cult (Prompt on "BOC")
10 This band, consisting of guitarists David St. Hubbins and Nigel Tufnel, bassist Derek Smalls, and a long list of drummers, uses a pair of rock dots over the n in their name, typical of their cluelessness.
Answer: Spinal Tap (This space was formerly used by noted Microsoft employee Dan Benediktson complaining about how you can't put an umlaut over an $n$ in Word. Thank heavens I converted it to $\mathrm{IAT}_{\mathrm{E}} \mathrm{X}$.)

10 At approximately the same time as Blue Öyster Cults formation, this band released a rare single version of their song Paranoïd featuring an umlaut over the i, which it didnt have on the album of the same name. They are thus the other potential founders of the rock dot tradition.
Answer: Black Sabbath
19. On permanent display in his home, Cedar Grove, are paintings including "Sunrise in the Clove" and "Study of Mountain Crags." For ten points each...

10 Name this British-born American landscape painter. Answer: Thomas Cole

10 Cole is one of the foremost examples of this American pastoral school that depicted realistic yet idealized depictions of nature.
Answer: Hudson River School
10 The Savage State, The Pastoral, The Consummation, and The Destruction are works in this Cole series.

## Answer: The Course of Empire

20. For ten points each, given the publickey cryptosystem, identify the computational problem whose intractability was hoped to guarantee that the cryptosystem was secure.

10 RSA
Answer: Integer factorization

10 Diffie-Hellman
Answer: Discrete-log problem
10 Merkle-Hellman. Note: there are known polynomial-time attacks against MerkleHellman, so don't use it. Answer: Subset-sum (accept Knapsack)

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