

PARFAIT Round 13

Princeton
Irene and Jordan
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1 Princeton Tossups, Round 13

1. It is divided into 15 maakonnad, 255 vallad, which are further divided into külad and asulad. In 2005 the Riigikogu slightly adjusted its eastern border, and Lake Peipus, its largest, forms its eastern border. The Pärnu river is its longest, and names an airport served by Air Livonia as well as a bay that just off the Gulf of Riga. Bordered to the south by Latvia and separated from Finland by the gulf of Finland, for ten points name this northernmost Baltic nation whose capital is Tallinn.

Answer: Republic of Estonia or Eesti Vabariik

2. His triptych "The Haywain" features a humongous wagonload of hay, surrounded and sat upon by crazy townsfolk and pulled by demons is an altarpiece for San Lorenzo de El Escorial. Bored onlookers observe a trepanation surgery in his *The Extraction of the Stone of Madness*, and a guardian angel attempts to protect a man from the grim reaper in his *Death and the Miser*. For ten points, name this artist of *The Temptation of Saint Anthony*, *The Seven Deadly Sins*, and *The Garden of Earthly Delights*.

Answer: Hieronymus or Jerome Bosch

3. The chapter "Mass Society" complains that education has become no more than training in "vocational tricks" and "adjustment to life," and mocks the idea of a public opinion. It also discusses the centralization of production, institutions, and "opinion-making" in the title group. The chapter "The Higher Immorality," which refers to money and its associated corruption, deplores the American "self-made" image, and claims "Blessed are the cynical, for only they have what it takes to succeed". The counterpart to the author's *White Collar*, for ten points, name this C. Wright Mills book about how "the warlords, the corporation chieftains, the political directorate" come together to form the title potent, upper strata of society.

Answer: The Power Elite

4. This element is longer-lived and has higher conversion rates as a catalyst for Fischer-Tropsch Synthesis. George Brandt discovered it, and proved that it caused glass to turn a dark blue color. Expose this element to enough neutrons in a reactor, and it becomes the 60 isotope, which is used for cancer radiation therapy. Extracted from erythrite, glaucodot, and skutterudite, Alfred Werner studied metal-amine complexes using this element as a central ion, and lack of the vitamin containing it causes pernicious anemia. Almost ironically, it is very poisonous, hence its name from miners who weren't too happy to be poisoned by it. For ten points, name this metal with atomic number 27, whose name derives from "goblins," or "kobold."

Answer: Cobalt

5. Sixo and Paul A die during an escape attempt. Halle goes mad when he sees his pregnant wife's milk sucked away by a schoolteacher's nephews. A white girl, Amy Denver, makes up the name "chokecherry tree" and helps deliver a baby girl, who is named after her. That girl grows up isolated and resents Paul D for chasing away the angry ghost haunting 124. As Paul D grows closer to Denver's mother, Denver leaves 124 for the first time in twelve years, to get support from Lady Jones and Ella. But Mr. Bodwin is mistaken for

schoolteacher by Sethe, who goes at him with an ice pick. Sethe's life has been destroyed by a strange woman who can be interpreted as one of three people: a woman kept in lifelong captivity, the embodiment of Sethe's mother, or the embodiment of Sethe's dead daughter. For ten points, name this novel dealing with a baby murdered with a handsaw in order to save her from slavery by Toni Morrison.

Answer: Beloved

6. He built a "perfect city" called Fatehpur Sikir, but due to being way too far from water, it was abandoned as soon as he died. Quite religious, he came up with the Din-i llahi, or the "Religion of God", which was a mishmash of Islamic / Hindu / Christian / Zoroastrian doctrine. His son Salim consolidated his gains of Malwa, Gondwana, and Bengal. Though Muslim himself, he eliminated the jizya, or tax on non-Muslims, and also eliminated the pilgrimage tax on Hindus. For ten points, name the son of Humayun and grandson of Babur, who ascended the Mughal throne at age 14.

Answer: Akbar

7. It lies within the Triangle of Koch and the crista terminalis attaches to it. It has a relatively small number of stellate nodal myocytes, and contains transitional myocytes, which slow down the signal to allow for strategic filling to occur. A first-degree block to this results in a PR interval of greater than 0.2 seconds, but is usually asymptomatic and passes to second-degree block, which may involve the Bundle of His. With third-degree, or complete heart block, the Bundle of His takes over, which results in bradycardia, and if the coordination is off, life-threatening fibrillation and/or asystole results. For ten points, name this bundle of conducting cells in the heart, which conducts signals from the sinoatrial node.

Answer: Atrio Ventricular node

8. He collaborated with Guy de Maupassant and Joris-Karl Huysmans on a collection of short stories, 'Les Soirées de Médan', or 'Evenings at Médan'. His 'La Terre' angered five of his literary disciples to the point of publishing a manifesto against him, and works like 'La Débâcle' forever kept him out of the French Academy. His early novels Thérèse Raquin and Madeleine Féral foreshadowed the genetic components to his future serial work, which he wrote at the rate of almost one novel per year, for twenty years. That series follows the fortunes of two families, one noble and one an alcoholic trainwreck, in *L'Assommoir*, *Nana*, and *La Fortune des Rougon*. For ten points, name the French novelist of *Rougon-Macquart* and *Germinal* who stepped into the Dreyfus affair with *J'accuse*.

Answer: Émile Zola

9. He claimed that "making itself intelligible was suicide for philosophy", with the result of analytical philosophers decrying him. He had a real thing for Hölderlin's poetry, and viewed technology as a vehicle for creating "Bestand", or a standing reserve of energy. Works later in life include "Vorträge und Aufsätze", "Zur Seinsfrage", "The Origin of the Work of Art", and "Building Dwelling Thinking". Aside from his academic work, his personal life was criticized as well; Karl Jaspers spoke against him, even though Hannah Arendt defended him. He was forbidden to teach for some years thanks to affiliation with

the Nazi party. For ten points, name this philosopher best known for "Being and Time".

Answer: Martin Heidegger

10. Its modern incarnation was first printed by the Camaldolese monks in the Order de Mercede, supposedly by St. Antonius of Florence. However, Harmann of Laon claims that St. Ildephonsus of Toledo was echoing the Angel Gabriel when he created this, and was given a chasuble in reward. In the past it was not often used alone, because technically it is really a salutation. It begins with Luke 1:28, then Luke 1:24, and the ending was supposedly settled by the Council of Trent. Verdi composed music to it for Othello, and "Ellens dritter Gesang" opens with its opening, hence Schubert also being credited with a musical setting. Along with Pater Noster, it is the other prayer used in the Rosary. For ten points, name this familiar Catholic prayer, in homage of the Blessed Lady.

Answer: Ave Maria or Hail Mary

11. She first gained fame with her "glass house" exhibit at the 1915 Panama-Pacific International Exhibition in San Francisco. Though she never practiced medicine, she was the first woman in Italy to graduate with a medical degree. She opened the Casa dei Bambini in the slum San Lorenzo and famously managed to help a bunch of mentally retarded children pass exams that were meant for normally developing children. For ten points, name this woman whose namesake schools hold that children teach themselves.

Answer: Maria Montessori

12. He's not Sherlock Holmes, but his address is 221B. He's not the Janitor on Scrubs, but his father is played by R. Lee Ermy. After viewing the actor's audition tape recorded in a Namibian bathroom during filming for *Flight of the Phoenix*, director Bryan Singer had no idea that the show's eventual lead was in fact British. Jennifer Morrison's character falls for him, but is rejected despite Lisa Cuddy's intervention. He correctly deduces that Cameron slept with Dr. Robert Chase while high on meth, diagnoses a rat in his ex-wife's house, and treats a guy with AIDS all in one episode! For ten points, name this misanthropic, crippled, Vicodin-dependent central character of a FOX medical drama.

Answer: Gregory House, M.D. (you knew this was coming)

13. This conflict was precipitated by the capture of Methone and Corcrya where Bogud was killed. The losing side had a hundred fewer quinqueremes, and didn't help that Delius defected and took plans to the other side, which had Liburnian vessels and healthy crews. The battle ended when sixty Egyptian ships fled with the command, but the rest of the ships were captured by Augustus. For ten points, name this 31 BC battle, where the Octavian forces won out over Antony and Cleopatra.

Answer: Battle of Actium

14. Tisza suggested that it was composed of two parts, and that the ratio was one minus the temperature over the transition temperature, 2.18K, raised to $\frac{3}{2}$ power. Kamerlingh-Onnes received a Nobel for first producing it, and an analysis of its behavior as system of molecules at absolute zero superimposed with elementary excitations won Lev Landau the 1962 Nobel. Very thermally conductive and with almost zero viscosity, for ten points identify this form of a noble gas that takes on superfluid properties.

Answer: Liquid Helium, prompt on “superfluidify,” accept superfluid helium or HeII

15. The girl of “A Very Young Dancer” is awarded the lead female role in this dance, whose story was written by ETA Hoffman. That girl has two names depending on whom you ask. Minor parts include the Morning Butterfly, Fritz, Herr Drosselmeyer, and the unamned Spanish, Chinese, Arabian, and Russian dancers who stand for Chocolate, Tea, Coffee, and Trepak, respectively. The Mouse King stabs the heroine’s not exactly romantic interest, and is incapacitated by a well-aimed shoe. After that, the wooden prince comes to life, and takes Mary or Clara to a dream world, which climaxes with the *Dance of the Sugar-Plum Fairy*. For ten points, name this Christmastime ballet, centering around a wooden device used to open hard foodstuffs.

Answer: The Nutcracker

16. The chorus says that the queen’s function is to knit until she dies. When she finishes her final row of knitting, she indeed stabs herself in the throat with a needle and commits suicide. Sisterly rivalry is played up more than in the original; the title character steals her sister’s makeup to score Haemon as a fiance. Despite the prettier sister’s pleas, she is sentenced to be immured; double suicide ensues. As in the original play, the crime was throwing dirt over the body of Polynices, who was killed with and by Etocles, but Creon forbids the burial, leading to Ismene’s sister betrayal. For ten points, name this Jean Anouilh reworking of a Sophocles tragedy about a daughter of Oedipus.

Answer: Antigone

17. The title character tries to save himself by not seducing Hetty Merton, but he realizes it to be a hypocritical act. He blackmails Alan Campbell into disposing a dead body, but is still called “Prince Charming” by an old woman, prompting an attack by James Vane. That nickname comes from his first “love”, an actress who lost her talent when he proposed to her and whose suicide is caused by his rejection of her. Lord Henry Wotton spouts empty or hedonistic sentiments that eventually corrupt the main character, who begins to live a life devoted to new sensations, including murdering the artist Basil Hallward until he eventually commits suicide by proxy. For ten points, name the novel wherein Basil’s masterpiece changes even as the title character remains young.

Answer: The Picture of Dorian Gray

18. It was created in Washington’s “General Orders of August 7, 1782” which dictated that the names of those to whom it applied should be kept in the “orderly room” and be “suffered to pass all guards and sentinels which officers are permitted to do.” The only original recipients of the cloth version are Sergeants Elijah Churchill, William Brown, and Daniel Bissell, Jr., but it was revived in 1932 as a medal bearing George Washington’s head to replace the chevrons earned for wounds recieved in combat. For ten points, name this oldest American designation which John Kerry might or might not have earned three of.

Answer: Purple Heart or Badge of Military Merit

19. He ran the jazz bar “Peter Cat,” and musical themes or titles often appear in his writing. His first novel, *Hear the Wind Sing*, was inspired by a Truman Capote short story. A

year later he published *Pinball* and filled up his *Rat Tetralogy* with *Dance Dance Dance* and *A Wild Sheep Chase*. He tackled Japanese crimes in Manchukuo in *The Wind-Up Bird Chronicle*, dealt with the sarin gas attacks in *Underground*, and Kobe in *After the Quake*. His most conventional work, a bittersweet coming-of-age novel revolving around Reiko, Midori, Naoko and Toru, shot him into undesired fame. For ten points, name the author of *Norwegian Wood*.

Answer: Haruki Murakami

20. He joined Klemens Gneich in front of Gate Number 2 in front of 200 people from the K5 building; this was the same spot as a 1970 strike that lost him his job and caused him to get a job with the ZERMB and write for *Robotnik*. Ten years later, a demand for more pay and a memorial to the earlier strike led him and Borowczak to lead another strike at Lenin Shipyard and negotiate the Gdansk Agreement that allowed Polish workers to organize. For ten points, name this leader of Solidarity who won the 1983 Nobel Prize and became Poland's first directly elected president.

Answer: Lech Walesa

2 Princeton Bonuses, Round 13

1. We hope this bonus makes you happy ... for ten points each.

10 This theory is often summarized as "the greatest happiness for the greatest number of people."

Answer: Utilitarianism, accept word forms

10 The "greatest happiness principle" is attributed to this man, who is also known for his body being preserved and brought out for show at University College London.

Answer: Jeremy Bentham

10 Fellow Utilitarianism J.S. Mill, with the support of other "philosophic Radicals" founded the *London Review* as an alternative to this publication founded by Bentham in 1823.

Answer: Westminster Review; do not prompt on "London and Westminster Review," the magazine founded after the backers merged the two loss-making publications into one loss-making publication.

2. Answer the following about a Revolutionary War battle ... For ten points each.

10 Beginning with an encounter at Freeman's Farm, what 1777 battle was an attempt by the British to seize Albany?

Answer: Saratoga

10 Name the British general who lost this battle but who went on to write plays such as *The Heiress*.

Answer: John "Gentleman Johnny" Burgoyne

10 Horatio Gates, the winning general, ended his military career by losing this 1780 battle in South Carolina to Cornwallis.

Answer: Camden

3. Identify the following concerning the former Germanys for the stated number of points.

5,5 For five points each, name the capitals of the DDR and BRD.

Answer: Berlin and Bonn

10 The brains behind the Berlin Wall, he replaced Walter Ulbricht as General Secretary in 1982 and ruled the DDR until briefly replaced by Egon Krenz before reunification.

Answer: Erich Honecker

10 Name the BRD Chancellor who in 1974 who was forced to resign after learning that a top aide was a DDR spy and who won the 1971 Nobel Peace Prize for his Ostpolitik.

Answer: Willy Brandt

4. Ever fill out those trendy little LiveJournal polls? for ten points each...

10 Those polls are often called these, which is defined as "an information pattern, held in an individual's memory, which is capable of being copied to another individual's memory".

Answer: Memes

10 It's unclear who came up with memes, but the word came into popular usage after this guy called it a "virus of the mind" in his "The Selfish Gene".

Answer: Richard Dawkins

10 This woman wrote "The Meme Machine", which expanded hugely on Dawkin's work and declared that humans exist to spread memes ... much like genes.

Answer: Susan Blackmore

5. Given a classical piano piece, name the composer for ten points each.

10 Für Elise

Answer: Ludwig van Beethoven

10 "Raindrop" Prelude

Answer: Frederic Chopin or Fryderyk Franciszek Szopen

10 "Lyric Pieces", which includes "To the Spring" and "Butterfly".

Answer: Edvard Grieg

6. Answer some questions about matrices with special transposes for ten points each.

10 If a matrix is equal to its own transpose, it is said to have this property.

Answer: symmetric

10 This is a matrix that is equal to its own complex conjugate transpose.

Answer: Hermitian or Hermite

10 An n by n matrix, composed of only plus or minus ones, is said to have this property if the product of its matrix times its transpose is nI_n , where I_n is the identity matrix of order n .

Answer: Hadamard or Sylvester

7. Better living through chemistry. Given a vague outline of how to synthesize a recreational drug, name it for ten points each.

10 One of several ways involves taking an OTC decongestant and reducing the ephedrine or pseudophedrine by hydrogenating. This involves either combining red phosphorous and iodine to form hydroiodic acid, or anhydrous ammonia plus lithium metal.

Answer: Crystal methamphetamine (prompt on crystal, glass, shards, ice, P, Tina, crank, speed, etc.) or (S)-N-methyl-1-phenyl-propan-2-amine

10 Get a hold of the plant oil safrole or isosafrole, oxidize it into MDP2P, then make it undergo reductive amination.

Answer: Ecstasy or X or MDMA or 3,4-methylenedioxymethamphetamine

- 10 Find some ergot, hydrolyze the lysergamides, and go from there.
Answer: D-lysergic acid diethylamide or acid
8. Proteins, like people, work best when in shape. for ten points each. . .
- 10 Proteins have primary, secondary, tertiary, and sometimes quaternary these. For five points give the technical name for the structural “shapes” that proteins adopt.
Answer: Conformation (prompt on “structure”)
- 10 Given the incredible number of possible conformations, it ought to be impossible that they are able to assume the correct one at all, says this paradox.
Answer: Levinthal’s
- 10 These proteins, including the heat shock protein family, assist in the proteins’ folding.
Answer: Chaperones or chaperonins
9. Name the following Shakespearean characters for ten points each. . .
- 10 FFPE, this love-hate romantic couple verbally duke it out in “Much Ado About Nothing”.
Answer: Beatrice and Benedick
- 10 FFPE, King Duncan’s two sons.
Answer: Malcolm and Donalbain
- 10 FTP, Hamlet knew this guy well, at least well enough to contemplate aloud while holding his skull in a graveyard.
Answer: Yorrick
10. Given a painting inspired by the Cirque Fernando, name the impressionist painter for fifteen points each. If you need another painting, you’ll only get ten.
- 15 *Miss Lala at the Cirque Fernando*
- 10 *The Cotton Exchange in New Orleans and Jockeys Before the Race*
Answer: Hilaire-Germain-Edward Degas
- 15 *Jugglers at the Cirque Fernando*
- 10 *Oarsmen at Chatou and Luncheon of the Boating Party*
Answer: Pierre-Auguste Renoir
11. Answer some questions relating to Filipino-American War, for ten points each.
- 10 Name the first president of the Philippines, whose surrender ended the Filipino-American War.
Answer: Emilio Aguinaldo
- 10 Said war took place during the administration of this U.S. President.
Answer: William McKinley

- 10 Philippine independence by July 4, 1946 was provided by this legislation.
Answer: Tydings-McDuffie Act prompt on “Philippine Commonwealth And Independence Act”
12. Answer the following about prostitutes in the works of Fyodor Dostoyevski for ten points each.
- 10 Both he and his father, Fyodor Pavlovitch Karamazov, are in love with Grushenka, a prostitute Fyodor keeps on the outskirts of town.
Answer: Dimitri Karamazov
- 10 After her father Marmedelov drinks up all the family’s money, Sonya joins this murderer in his exile.
Answer: Rodion Romanovich or Raskolnikov
- 10 The narrator explains how prostitutes smuggle Vodka into a Siberian prison in this work.
Answer: Myortvyy dom or House of the Dead
13. Answer some questions about Arthurian myth.
- 10 In various incarnations of Arthurian legend, her father was Pelles the Fisher King. Launcelot bedded her, thinking that she was Guinevere. Through this union she bore Galahad. Beats me why he was ”pure”.
Answer: Elaine, be impressed with and accept: Amite, Helizabel, Helia-bel, Dindraine
- 10 That Elaine is often confused with this other Elaine, who in the original Arthurian story fell for Launcelot, died of a broken heart, and sent her body to Camelot. There is no tower and no curse and no magical web.
Answer: The Lady of Shalott or Elaine of Shallott/Astolat/the Fair/le Blank or Fair Maid of Astolat/Aslotot/Ascolot
- 10 In original Arthurian myth, Elaine hailed from this land.
Answer: Astolat/Astolat/Ascolot
14. Identify these mayors, for ten points each.
- 10 This mayor of Minneapolis subsequently became a Senator, and then the vice-president after the 1964 presidential election.
Answer: Hubert Horatio Humphrey
- 10 He was inexplicably reelected as mayor of Washington, DC in 1994 after serving six months for possession of crack and being caught on tape smoking crack.
Answer: Marion Barry
- 10 Under this guy, New York became known as the ”ungovernable city”.
Answer: John Lindsay

15. Identify the following people who got on God's bad side for ten points each.
- 10 She stole Naboth's vineyard for her husband King Ahab.
Answer: Jezebel
- 10 After killing Er, God commands him to sleep with Tamar, but he chickens out and God kills him too.
Answer: Onan
- 10 God says that he's a "dead man" if he prevents Sarah from marrying her brother, Abraham. So he quickly changes his mind and gives Abraham lots of loot.
Answer: Abimelech
16. Answer some questions about voting and voting technology for ten points each.
- 10 These two schools collaborated on a Voting Technology report, publishing papers such as "Voting - What is, what could be" and "Where we have been, Where we are going."
Answer: Caltech and MIT
- 10 In 2002, this piece of legislation was passed, in order to "provide funds to States to replace punch card voting systems." Under this legislation, each state had to submit a working plan for how it would carry this out before receiving funding.
Answer: HAVA or Help America Vote Act
- 10 In August 2003, Warren O'Dell, the president of this voting machine company made the mistake of declaring in Ohio that he was "committed to helping Ohio deliver its electoral votes to the president."
Answer: Diebold Inc.
17. Answer some questions relating to cancer, for ten points each.
- 10 Kinases and growth factors are often called proto-forms of these genes, which are named for their ability to sustain or cause tumors.
Answer: Oncogenes
- 10 Lung cancer, unlike most others, is not staged. It is instead divided into "local" and "extensive". This type of lung cancer doesn't result in one primary tumor, but instead prefers to metastasize and become extensive very quickly.
Answer: Small-cell carcinoma
- 10 Certain tumor surface markings bear remarkable similarity to brain cells, and when the immune system begins to attack the tumors, they can often attack nerves and brain tissue as well, resulting in this neurological disease.
Answer: Paraneoplastic syndrome
18. Novels by Charles Dickens for ten points each.
- 10 Richard Carstone and Ada Clare wait for a verdict on Jarndyce vs Jarndyce.
Answer: Bleak House

10 Tom tries to frame Stephen Blackpool for robbing the bank of Josiah – “I grew up in a ditch” – Bounderby, and his father Thomas Gradgrind regrets raising him.

Answer: Hard Times

10 The circumlocution office is satirized when Arthur Clennam returns from China, and the titular Amy marries him in Marshalsea prison, even though her father William finally makes a fortune while Amy remains in debtor’s prison to sew for Mrs. Clennam.

Answer: Little Dorrit

19. Answer some questions on different types of radioactive decay for the stated number of points.

5 Phosphorous-32 undergoes this type of decay, which involves releasing an electron.

Answer: Beta

5 Beta decay is mediated by this force.

Answer: Weak, do not accept electroweak

10 Name the other particle released by beta decay.

Answer: Antineutrino or $\bar{\nu}_e$

10 Lucite is used instead of lead in many laboratories that handle beta radiation. This is because lead is a more massive atom, and when high-energy, high-speed particles pass through it, this X-ray like “braking radiation” is often produced.

Answer: Bremsstrahlung

20. Thomas Hardy works for ten points each.

10 A girl discovers her lineage, and everything goes to hell. Angel Clare is involved.

Answer: Tess of the d’Urbervilles

10 The title character is tricked into living with Arabella Donn ... twice. Moron.

Answer: Jude the Obscure

10 Marty loves Giles who loves Grace who marries Fitzpiers who cheats on her.

Answer: The Woodlanders