

ScotBowl 2019

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Finals: The tactical neg

1. Which scientist usually names a type of flow in which results like the minimum dissipation theorem hold, corresponding to extremely low Reynolds numbers? In that kind of flow, this Cambridge scientist's namesake linear law for the drag force on a sphere can be found, and this flow can be modelled by neglecting the inertial terms in a nonlinear ODE describing fluid flow that he co-names with Claude-Louis Navier.

ANSWER: Sir George Gabriel **Stokes** <JK>

2. What country is the birthplace of the composer who wrote a set of variations on Sergio Ortega's *The People United Will Never Be Defeated*; the ultramodernist behind *String Quartet 1931*, and the composer of *Night Fantasies* who completed his piano trio *Epigrams* at the age of 103? Other musicians born here wrote an anti-opera based on Samuel Beckett's *Neither*, and a series of *Sonatas and Interludes* for prepared piano.

ANSWER: United States of **America** (accept either underlined section) <DA>

3. Which Roman statesman became Consul in 195 BCE, alongside Valerius Flaccus? He would later go on to serve as Censor in 184. He commanded part of the flanking attack that defeated the Seleucids at Thermopylae in 191, and he wrote a treatise on good farming practice that included a section on Roman folk medicine. His great-grandson, of the same name, was an outspoken critic of Caesar who committed suicide after the Battle of Utica rather than accepting Caesar's clemency.

ANSWER: Marcus Porcius **Cato the Elder** (or **Cato Major** or **Cato Censorius (the Censor)** or **Cato Sapiens (the Wise)** or **Cato Priscus (the Ancient)**); prompt on Cato; do not accept "Cato the Younger" or "Cato Uticensis") <JW>

4. Which shirt number was retired by Manchester City FC in 2003 in honour of midfielder Marc-Vivien Foe, who had died that year representing Cameroon in the African Cup of Nations? It is also the number of Grand Slam Singles titles currently held by Serena Williams, and the jersey number most associated with Michael Jordan during his time playing for the Chicago Bulls.

ANSWER: **23** <JW>

5. The Arthur C. Clarke story *Jupiter V*, the David Mamet play *4 A.M.*, and a Ray Bradbury short story have all been cited as possible inspirations for what? These objects, named after a 20th century British historian and found pressed into the streets of many American cities, most notably Philadelphia, commonly contain the words "IN MOVIE `2001 / RESURRECT DEAD / ON PLANET JUPITER".

ANSWER: **Toynbee tiles** (or **Toynbee plaques**. Accept anything reasonable with **Toynbee** in it) <MB>

6. What artist of the "Disney Renaissance" is best known for hand-animating the ballroom dance between Belle and the Beast, Quasimodo in *The Hunchback of Notre Dame*, and Rafiki in *The Lion King*? In addition to incidental work for a climatic scene in *Steven Universe*, he animated and voiced a horse

dancing on a beach-ball in *Adventure Time*, who acquires his name from misreading the words “Games Bookstore”.

ANSWER: James **Baxter** <FW>

7. “Extreme views, weakly held.” Who, describing their politics, said this in an interview for an Oxford professorship? His publications include *The Struggle for Mastery in Europe* and a strikingly revisionist monograph which claimed that “Power will be Power” and took aim against the “almost universal agreement among historians” that “Hitler planned the Second World War” and “his will alone caused it”, *The Origins of the Second World War*.

ANSWER: A.J.P **Taylor** <RCH>

8. A box attached to two pieces of clay, a car with spades coming out of the back, a blackboard with instructions on how to make soap, and a series of sleds resembling a pack of dogs all comprise works by what artist? Being nursed by Tartar tribesman after his Stuka was shot down may explain the use of unorthodox materials in his work, such as fat and felt. Performance works by this German artist include 1974's *I Like America and America Likes Me*, where he was trapped in a room with a coyote, and 1965's *How to Explain Pictures to a Dead Hare*.

ANSWER: Joseph **Beuys** <MB> (*Table with accumulator; F.I.U.: The Defense of Nature; Virgin; The Pack*)

9. The space of left-invariant vector fields on these objects turns out to be isomorphic to their tangent space at the identity. What are these objects, whose simple type was classified by Killing and Cartan? Classical examples of them include SO_n and GL_n , and an important tool in their study is the exponential map that is defined on their associated algebras.

ANSWER: **Lie groups** (do not accept or prompt on “Lie algebras”) <VB>

10. “Nothing Is a Greater Waste of Time Than” what event, according to an article by Charles Mudede? John Gray criticised one of its participants for “formless radicalism”, while the other has been variously accused of overly relying on the scholarship of Jung, Eliade and Campbell and of disregard for historical context. Titled “Happiness: Capitalism vs Marxism” and due to happen on April 19, it will see a philosopher with a lisp argue with a professor who thinks about lobsters a lot.

ANSWER: the Slavoj **Zizek** and Jordan **Peterson debate** (accept “**Happiness: Capitalism vs Marxism**” before read) <VB>

11. What format is nominally shared by a 2003 novel by Han Shaogong about the village of Maqiao, a short appendix to *Bouvard et Pecuchet* that describes ‘received ideas’, a 1984 novel that comes in ‘male’ and ‘female’ versions by Milorad Pavic about the Khazars, and a work that describes oats as ‘a grain which is in England generally given to horses, but in Scotland supports the people’, completed in 1755 by Samuel Johnson?

ANSWER: **dictionary** <JK>

12. "It took them only an instant to cut off this head, and one hundred years might not suffice to reproduce its like." These words of Lagrange refer to which noble Frenchman? Charged with tax fraud and guillotined in the Revolution, he is often considered “the father of modern chemistry”. He predicted the existence of silicon, popularised the principle of conservation of mass, and was responsible for recognising and naming both oxygen and hydrogen.

ANSWER: Antoine-Laurent de **Lavoisier** [la-VWA-see-ay] <FW>

13. In order to prevent its destruction, Vasari placed an altar in front of one of which artist's frescos during renovations in the 1500s, whom he claimed learned perspective from Brunelleschi? Rediscovered in 1860, that work by this artist features the text "I was once what you are, and what I am you also will be" above a skeleton and below the Holy Trinity. This artist also collaborated with Masolino in a series of works including *The Tribute Money* in the Brancacci Chapel.

ANSWER: **Masaccio** (or Tommaso di **Simone**) <JK>

14. Which general process is described by a function given as the minimum of two multiples of its inputs, in a model due to Wassily Leontief? The derivative of a firm's profit function with respect to price gives a function named for this concept, according to Hotelling's Lemma. A simplistic power-law type of those functions was proposed by Cobb and Douglas, and capital, enterprise, labour and land are often given as the 'factors' of this concept.

ANSWER: **production** function <JK>

15. Which animal is variously associated with the phrase "the river is moving", the fact that "it was evening all afternoon", and the narrator's knowledge of "lucid, inescapable rhythms" in a 1917 work? The narrator is "of three minds / like a tree / in which there are three" of these animals in that work, and "among twenty snowy mountains / the only moving thing / was the eye of" one of these animals in that Stevens poem, which gives "Thirteen Ways of Looking at" them.

ANSWER: **blackbirds** <JK>

16. A 1982 made-for-television film starring Tom Hanks in his first leading role and a Chick tract in which players are forced into a Satanic ritual at eighth level were the products of a moral panic surrounding what role-playing game? Known for its d20 system and originally derived from miniature wargaming, its *Fifth Edition* was released in 2014.

ANSWER: **Dungeons and Dragons** (prompt on D and D) <FW>

17. A line from one of which author's works, in which the title poet finds it "unpleasant that he could not walk on his head", was described by Arnold Zweig as "the beginning of modern European prose"? Aside from that work about Pastor Oberlin's time with *Lenz*, written shortly before this author's 1837 death at age 23, he is better known for his dramas like *Leonce et Lena* and *Danton's Death*.

ANSWER: Georg **Büchner** <JK>

18. Which group, founded in 1119, was dedicated to the treatment of leprosy? In 1142 they were given a plot of land, outside the walls of the city in which they operated, for the purpose of building a hospital. Though originally a hospitaller order, they did operate a small section of leper knights for use in combat, who were suicidally brave due to them being "doubly-saved". The symbol of this crusader order was a green cross on a white field.

ANSWER: Order of **St Lazarus** of Jerusalem <JW>

19. Which event, described as the oddest battle of World War II, was one of the final engagements in the European Theatre? It saw a detachment of the US 12th Armoured Division defend against elements of the 17th SS Panzergrenadier Division. Notable figures, who all fought on the same side, included Cpt. Jack Lee, Mjr. Josef Gangl, Hauptsturmführer Kurt-Seigfried Schrader, and French tennis legend Jean Borotra. It was the only recorded instance of Allied and Wehrmacht troops fighting together.

ANSWER: Battle of **Castle Itter** <JW>

20. Which character is described as being somewhere between an old-school British copper and a grizzled film noir detective? His appearances in his universe have shown his steady rise in both the police force and society as a whole - albeit begrudgingly. A recovered alcoholic, he is dedicated to upholding justice, and one of his crowning achievements was the prevention of a pointless war. Alongside the titles bestowed on him by the Patrician of his city, he is known to the Dwarves as the Blackboard Monitor.

ANSWER: His Grace, His Excellency, The Duke of Ankh; Commander Sir **Samuel Vimes** (prompt on Vimes or any of his titles) <JW>

21. Their most severe occurrence so far happening between 2014 and 2016 and killing over a third of the bodies they affect, what are these ecological events? They are caused by the breakdown of the symbiotic relationship with dinoflagellates called zooxanthellae, which serve as the main source of energy and give colourful appearances to bodies to which these events happen.

ANSWER: **coral bleaching** (accept answers describing the corals becoming white or losing the ability to photosynthesise, prompt on coral death) <VB>

22. Designed by the inventor of the Hansom cab, and possessing the tallest church spire in England which is *not* on a cathedral, the Victorian St Walburge's Church is in which Northern city? Its other sights include a Ove Arup-designed Brutalist bus station, and the world's oldest continuously used football stadium at Deepdale, where its North End team plays.

ANSWER: **Preston** <JK>

23. Arturo Sosa is the current leader of which organisation? Expelled from Portugal in 1759, Austria in 1782 and Switzerland in 1847, they are the largest male order in the Catholic Church. Responsible for the Vatican Observatory and led by a so-called "Black Pope", notable members of this order include Pierre Teilhard de Chardin, Gerard Manley Hopkins, and its co-founder Francis Xavier.

ANSWER: The **Jesuits** (or **Society of Jesus**) <RCH>

24. "This place is not a place of honor". This is part of a message written by the WIPP to do what? Some proposed methods of doing this involve designing special flowers, installing asymmetric spikes, propagating a system of myths and rituals by means of a special "priesthood", and genetically modifying cats to glow in the presence of radioactive substances.

ANSWER: long-time **nuclear waste warnings** (accept anything to the same effect) <VB>

25. What genus of the phylum *Cnidaria* is of interest in the field of senescence, the science of aging, as a study by Martinez proposed that they are biologically immortal? Generally sessile and attached to substrate by a basal disc, organisms in this genus live in temperate freshwater climates, and, like their mythological namesake, can also regrow lost tissue.

ANSWER: **Hydra** (prompt on class Hydrozoa) <FW>

26. Which political theorist used the term "loss of the world" to refer to the elimination of the public sphere of action in favor of the private pursuit of economic interests? Arguing that "the *raison d'être* of politics is freedom, and its field of experience is action," this thinker criticised how the Western tradition has subordinated the *vita activa* to the *vita contemplativa*, modes of life explored in her work *The Human Condition*.

ANSWER: Hannah **Arendt** <DA>

27. Which deity has a name meaning "calf of the sun"? The ending of *Indiana Jones and the Infernal Machine* requires the player to defeat this god. By the time of Hammurabi they were associated with the

planet Jupiter. He was worshipped in the temple Esagila, and associated with the divine weapon Imhullu. He was the patron deity of Babylon, and head of the Babylonian Pantheon.

ANSWER: **Marduk** <JW>

28. Though they began as a peaceful organisation, which group's violent attacks include the bombing of the UN building in Abuja? Originally founded by Mohammed Yusef as a educational centre for poor Muslims, it quickly became a recruiting centre for jihadists. They operate predominantly in the countries of Nigeria, Cameroon, Niger, and Chad.

ANSWER: **Boko Haram** (or **Islamic State in West Africa** or **Islamic State's West African Province** or **Jamā'at Ahl as-Sunnah lid-Da'wah wa'l-Jihād**) <JW>

29. Which band from East London have a discography of thirty-eight albums, including sixteen studio albums? They achieved initial success in the the 1980s, and they have had several line-up changes since then. Their most recent studio album, *The Book of Souls*, was released to critical acclaim. Other albums include 2010's *The Final Frontier* as well as the platinum-certified *Piece of Mind* and *The Number of the Beast*.

ANSWER: **Iron Maiden** <JW>

30. What profession links: The runner up of Strictly Come Dancing 2018; The individual whose appearance at the Bullring in Birmingham caused gridlock throughout the city centre in January 2019; The producer of a 50 pound 12 door advent calendar that included items like a small pack of confetti, Zoe Sugg; And Logan Paul, who had to apologise for one of his vlogs in Aokigahara forest, Japan.

ANSWER: **Youtubers** (prompt on internet personality) <RCH>

1. Three bonuses on a religious movement. For five points each:

[5] Jethro of Midian is revered as the spiritual founder and chief prophet of what middle-eastern religion? It incorporates elements of Ismailism and Gnosticism, believing in the unity of the soul with the Cosmic Mind at the end of the cycle of rebirth.

ANSWER: **Druze** [DROOZ] (or **darzī**, **durzī**, **durūz**, **drūzī**, **druzim**)

[5] Along with the Old Testament, the New Testament, the Quran and philosophical works by Plato, which corpus is the main sacred text of the Druze? Written in post-classical Arabic, it consists of 111 letters organised into six books first compiled by Al-Sayyid al-Tanukhi.

ANSWER: **Epistles of Wisdom** (or **Rasa'il al-hikma**, accept **Book of Wisdom** or **Kitab al-Hikma**, do not accept or prompt on "Epistles of India" or "Rasa'il al-Hind")

[5] Hamza, the author of over thirty *Epistles of Wisdom*, served under which Fatimid Caliph? Revered as a god by early Druze adherents, he is perhaps better known for ordering the destruction of the Holy Sepulchre in Jerusalem.

ANSWER: **al-Hākīm** bi-Amr Allāh (or **Abū 'Alī Mansūr**) <DA>

2. Three bonuses on musicals set in a particular time period. In each case I will give lyrics to one of the songs and I want the name of the lyricist and the name of the composer. For five points each:

[5] "When we're in public together / I hear society groan / But if they could see her through my eyes / Maybe they'd leave us alone."

ANSWER John **Kander** (composer) and Fred **Ebb** (lyricist) (prompt on either **Kander** or **Ebb**; the musical is *Cabaret*)

[5] "High on a hill was a lonely goatherd / Lay ee odl lay ee odl lay hee hoo / Loud was the voice of the lonely goatherd / Lay ee odl lay ee odl-oo."

ANSWER: Richard **Rodgers** (composer) and Oscar **Hammerstein** (lyricist) (prompt on either, it is of course *The Sound of Music*)

[5] (In this one the lyrics and the music were written by the same person) "Springtime for Hitler and Germany / Deutschland is happy and gay / We're marching to a faster pace / Look out / Here comes the master race."

ANSWER: Mel **Brooks** (from *Springtime For Hitler*, a musical inside *The Producers*) <RCH>

3. Three bonuses on Switzerland's 500 years of brotherly love, peace and democracy. For five points each:

[5] "All who take by the sword die by the sword" was Martin Luther's response to the death of which Reformation leader? He died in the Second Kappel War between the Catholic cantons and Zurich.

ANSWER: Huldrych **Zwingli**

[5] Two further civil wars, the first in 1656 won by the Catholics and the second in 1712 won by the Protestants, are referred to as the first and second wars of which municipality, in the Aargau canton?

ANSWER: **Villmergen**

[5] The Confederate army led by Guillaume Dufour defeated the "Separate Alliance" of seven Catholic cantons in which four-week long civil war of 1847 that notably saw less than a hundred deaths?

ANSWER: **Sonderbund** War <RCH>

4. Three bonuses on a television series. For five points each:

[5] Sean Bean plays which titular hero of a 1990s ITV period drama, set in the Napoleonic Wars? He would reprise the role in 2006 and 2008 for TV films set in India during the Third Anglo-Maratha War.

ANSWER: Sgt/2LT/1LT/Cpt/Mjr/LTC Richard **Sharpe**

[5] Which actor and musician co-wrote the music for *Sharpe*? He also portrayed the sharpshooting Rifleman Daniel Hagman.

ANSWER: John **Tams**

[5] Sharpe is the creation of which British novelist? He also created the *Starbuck Chronicles*, the *Last Kingdom*, and *The Grail Quest* series.

ANSWER: Bernard **Cornwell** <JW>

5. Three bonuses on black holes. For five points each:

[5] This physicist names a type of black hole that has no charge or angular momentum. Such a black hole is completely described by a type of "radius", also named after this physicist.

ANSWER: Karl **Schwarzschild**

[5] The statement that a black hole is determined by its mass, charge, and angular momentum is a "theorem" known by what two-word name supposedly coined by John Wheeler?

ANSWER: **No hair** theorem (or the **No hair** conjecture)

[5] This type of star hypothesized as an alternative theory to black holes has a fluid event horizon with a de Sitter spacetime inside, where it would contain dark energy.

ANSWER: **Gravastar** (or **gravitational vacuum** star) <MB>

6. Three bonuses on a non-Sibelius composer. For five points each:

[5] In 2006, which Finnish composer wrote an opera conceived as a passion play based on the life of Simone Weil? Kari Kriikku [CREEK-coo] premiered her clarinet concerto *Man's True Sense*, which was inspired by the series of tapestries *The Lady and the Unicorn*.

ANSWER: Kaija **Saariaho** [KAI-yah SAAR-ya-hoe]

[5] What opera by Saariaho is an experimental retelling of the Aquitanian troubadour Jaufré Rudel [rude-ELL]? Its title references the lady whom Raudel sings to.

ANSWER: **L'amour de loin** (or **The Love from Afar**, be kind with translations)

[5] Saariaho's style of composition is influenced by this perceptual phenomenon, famously experienced by Scriabin. Her use of a horn chorale to symbolize the color red in *Laterna Magica* exemplifies this condition.

ANSWER: **synaesthesia** <DA>

7. Three bonuses on delayed travel in American drama. For five points each:

[5] Passengers might be expected to be delayed if the proposed taxi drivers' strike goes ahead in *Waiting for Lefty*, a breakthrough play by which author, who also had success with his play *Golden Boy*?

ANSWER: Clifford **Odets**

[5] During a snowstorm, a group of bus passengers have to take shelter in a rural Kansas diner in *Bus Stop*, a play by which author of *Picnic*?

ANSWER: William **Inge**

[5] Twenty-one pilots' journeys were delayed rather catastrophically due to poor-quality engine parts in whose play *All My Sons*? Biff and Happy presumably have to take public transport for a while after Willy Loman crashes his car at the end of another of his plays.

ANSWER: Arthur **Miller** <JK>

8. Three bonuses on a Semitic religion. For five points each:

[5] Which North African god has a name which, despite uncertain etymology, means "Lord of the Brazier"? An alternate name for this god means "Lord of the Two Horns".

ANSWER: **Ba'al Hammon** (or **Ba'al Qarnaim** [KAR-NAY-IM]; prompt on **Ba'al**)

[5] Which North African goddess is the consort of Ba'al Hammon? She is a moon goddess roughly equivalent to Astarte.

ANSWER: **Tanit** (or **Tinnit** or **Tannou** or **Tangou**)

[5] Ba'al Hammon and Tanit were the chief deities of which city, and empire, the greatest threat to Rome?

ANSWER: **Carthage** <JW>

9. This man's godfather was the publisher of the Nuremberg Chronicle. For five points each:

[5] Name this artist, whose portrait works include the silverpoint *Self-Portrait at the Age of 13* and an engraving of his close friend Willibald Pirckheimer.

ANSWER: Albrecht **Dürer**

[5] This engraving by Dürer, one of his three *Meisterstiche*, shows a knight on a horse flanked by two demons.

ANSWER: ***Knight, Death, and The Devil*** (or ***Ritter, Tod und Teufel***, or reasonable translations thereof)

[5] Dürer produced multiple images of this saint, including another of his *Meisterstiche* showing this man in his study accompanied by a dog and a lion.

ANSWER: St **Jerome** <MB>

10. Three bonuses on Japanese history. For five points each:

[5] Which period in Japanese history, named after a much earlier period of Chinese history, lasted from about 1467 to about 1600?

ANSWER: **Sengoku jidai** (or **Sengoku** period or Age of **Warring States**)

[5] The Sengoku period began following the collapse of which shogunate? It had begun, following the brief Kenmu Restoration, in the 14th century.

ANSWER: **Ashikaga** (or **Ashikaga Bakufu** or **Muromachi**)

[5] The Sengoku period ended with the ascension of which new shogunate? It would continue to rule Japan until the Meiji Restoration in the 19th Century.

ANSWER: **Tokugawa** (or **Tokugawa Bakufu** or **Edo Bakufu**) <JW>

11. Three bonuses on social scientists who studied department stores, none of whom are William Labov. For five points each:

[5] Which work of 1958 criticises department stores for their role in inorganically creating demand through aggressive advertising? Marshall Sahlins claimed that hunter-gatherer societies were the original example of this book's title concept.

ANSWER *The **Affluent Society*** (by JK Galbraith)

[5] The so-called 'lost in the mall' psychology experiment pioneered by Elizabeth Loftus shows how which entities can be 'implanted'? Similar experiments can focus on nonsensical stories of meeting Bugs Bunny at Disneyland.

ANSWER: false **memories** [or obvious equivalents]

[5] Which thinker described the department store as the "flâneur's final coup" in an essay that formed part of his *Arcades* project? It was left unfinished when he killed himself in 1940 after failing to escape the Nazi regime.

ANSWER: Walter **Benjamin** <JK>

12. Three bonuses on an author who often reused his character names. For five points each:

[5] Which 17th-century playwright used supporting characters called Cleante in both *The Miser* and *The Imaginary Invalid*?

ANSWER: **Molière** (or Jean-Baptiste **Poquelin**)

[5] Molière reused what name for the suitor of Isabella in *The School for Husbands*, the title character of *The Imaginary Cuckold*, for *The Doctor in Spite of Himself*, and the valet of Valere in *The Flying Doctor*? This character was often played by Molière himself in contemporary performances.

ANSWER: **Sganarelle**

[5] Give either the name of the title character of Molière's play *The Imaginary Invalid*, or the very similar name of the head of the household in *Tartuffe*.

ANSWER: **Argan** or **Orgon** <JK>

13. Three bonuses on a paper. For five points each:

[5] This 1968 open letter criticised the use of the title instruction and advocated structured programming instead. It was originally titled "A Case Against [the title instruction]", but Niklaus Wirth changed it for publication.

ANSWER: "**Go To Statement Considered Harmful**"

[5] The "Go To Statement Considered Harmful" letter was written by this Dutch computer scientist. He is perhaps best known for his namesake algorithm for finding shortest paths in graphs.

ANSWER: Edsger **Dijkstra**

[5] Frank Rubin published a response to "Go To Statement Considered Harmful" in this other letter in the same journal. Dijkstra consequently reflected upon this response in his note titled "On a Somewhat Disappointing Correspondence".

ANSWER: "**'GOTO Considered Harmful' Considered Harmful**" (accept "**GOTO Statement Considered Harmful' Considered Harmful**") <VB>>

14. Three bonuses on the *Wardstone Chronicles*. For five points each:

[5] The *Wardstone Chronicles*, also known as the "Spook's Books" or *The Last Apprentice*, were written by which English author? He is also the author of the *Arena 13* and *Aberrations* novel series.

ANSWER: Joseph **Delaney** (accept **Joe** or **Harry Delaney**)

[5] The *Wardstone Chronicles* are set in a fantasy version of which English county? Locations include Caster, Staumin, and The Black Pool.

ANSWER: **Lancashire** (Lancaster, Stalmine, and Blackpool)

[5] Tom, the protagonist, is given the ability to train as a Spook due to what specific aspect of his birth? It is a common trope, especially in folklore.

ANSWER: **seventh son of a seventh son** (prompt on seventh son) <JW>

15. Three bonuses on Italian regional capitals in Church history. I am going to describe an event which has in its name the capital of a Italian region and I want you to give me the name of the region that city is a capital of. For instance "bishopric whose holder is Jorge Bergoglio" would give the answer Lazio, since Rome is the capital of Lazio. For five points each:

[5] An edict of 313, issued by Constantine and Licinius, which gave Christianity legal recognition in the Roman empire.

ANSWER: **Lombardy** (or **Lombardia**; the city is Milan)

[5] An ecumenical council which started in 1545 and ended in 1563, and reaffirmed Catholic doctrine concerning justification and the sacraments. It is considered the first act of the Counter-Reformation.

ANSWER: **Trentino-Alto Adige** (accept **Trentino-Südtirol** or **Trentino-South Tyrol**, prompt on South Tyrol; the city is Trent)

[5] A concordat of 1516 between Pope Leo X and Francis I of France, which allowed Francis to appoint the French bishops.

ANSWER: **Emilia Romagna** (the city is Bologna) <RCH>

16. Three bonuses about scattering theory. For five points each:

[5] When studying axisymmetric scattering, the wavefunctions are usually expanded in terms of which eponymous orthogonal polynomials, taking cos theta as an argument? They more generally arise when solving Laplace's equation in spherical coordinates.

ANSWER: **Legendre** polynomials

[5] When the setup cannot be solved exactly, a first-order approximation depending on the Fourier transform of the potential can be used. It is named for which German physicist, also the first namesake of an approximation in which electronic and nuclear motion are separated?

ANSWER: Max **Born**

[5] A commonly studied scattering setup, which theoretically gives an infinite cross-section due to the Coulomb potential being used, is named for which New Zealand-born scientist, who claimed all science is either physics or stamp collecting?

ANSWER: Ernest **Rutherford** <JK>

17. Three bonuses on a country. For five points each:

[5] Abdelkader Bensalah was recently declared acting president of what North African country? His predecessor was ousted after peaceful mass protests against his running for a fifth-term in the elections.

ANSWER: **Algeria** (or **al-Jazā'ir**, or **al-dzāyīr**)

[5] Who was Bensalah's predecessor, who resigned earlier this month? He had led Algeria for nearly 20 years, including during the end of its Civil War in 2002.

ANSWER: Abdelaziz **Bouteflika** (or 'Abd al-'Azīz **Būtafliqa**)

[5] Before Bouteflika, who was the last Algerian president to be forced out of office? His ousting and the assassination of his successor Mohamed Boudiaf sparked the Civil War.

ANSWER: Chadli **Bendjedid** (or ash-Shādhilī **bin Jadīd**) <DA>

18. Three bonuses on a political figure. For five points each:

[5] The 17th of October 1945 saw which former Minister of Labour greet 300,000 protestors from the balcony of the Casa Rosada? He had been arrested four days earlier at the behest of rivals within the military.

ANSWER: Juan Domingo **Perón**

[5] The protestors that freed Perón, possibly because of the heat of the day, are believed to have inspired which nickname for his supporters, especially working class ones?

ANSWER: **descamisados** (or **shirtless ones** or obvious equivalents)

[5] After a coup in 1955, Perón spent 18 years in exile, before triumphantly returning to which airport in Buenos Aires? Part of the crowd was shot in a namesake massacre, orchestrated by a faction on the right wing of Peronism.

ANSWER: **Ezeiza** Airport (or **Ministro Pistarini** International Airport) <RCH>

19. Three bonuses on man-eating animals. For five points each:

[5] Many contemporary tropes about werewolves stem from accounts of this 18th century man-eating wolf which killed and ate about a hundred people in a French province. Jean Chastel claimed to have slain it with silver bullets.

ANSWER: the **Beast of Gévaudan** (or la **Bête du Gévaudan**, or la **Bestia de Gavaudan**)

[5] The story of hunting and killing this animal is told in the book *Man-Eaters of Kumaon* by Jim Corbett. The deadliest documented man-eater in history, it is claimed to have killed 436 people near the former capital of the Kumaon Kingdom.

ANSWER: the **Champawat Tiger** (prompt on tiger)

[5] The Sankebetsu incident led to seven deaths and was the deadliest attack in Japanese history by this animal, which is thought to have been woken up from hibernation. Ōkawa Haruyoshi swore an oath and killed 102 of these animals in retribution.

ANSWER: brown **bear** <VB>

20. Three bonuses on an Asian philosopher. For five points each:

[5] One of the main focuses of which major non-Buddha thinker was the notion of sunyata, or “emptiness”? He posited that no phenomena possess independent existence as all things arise dependently of each other.

ANSWER: **Nagarjuna**

[5] This main text of Nagarjuna was allegedly revealed to him by the water spirits. Its famous opening passage states: “Neither from itself nor from another, / Nor from both, / Nor without a cause, / Does anything whatever, anywhere arise.”

ANSWER: **Mūlamadhyamakakārikā** (or ***Fundamental Verses on the Middle Way***)

[5] Nagarjuna was a key figure in the development of this school of Buddhism, whose name is translated as “Great Vehicle”. It is currently the most popular school in the world, more so than Theravada or Vajrayana.

ANSWER: **Mahāyāna** <VB>