

British Novice Tournament 2017: INSERT WITTY SUBTITLE HERE

By Tom Hill, Joseph Krol, Alex Peplow, Ellie Warner, Francis Clark-Murray, Chris Stern, Theo Howe, Sam Cook, Jacob Robertson, Leonie Woodland, Julian Sutcliffe, Oliver Clarke, Matt Nixon, Tom de Bock, Dan Lawson, Tricia Goggin, Daoud Jackson, Ewan Macaulay, Evan Lynch and a couple more people.

## Packet 7:

The previous tossup should have been on Louis de Broglie:

### **Tossups:**

1. In one work by this poet, a man's search for his missing bees leads to a notable recounting of the story of Orpheus and Eurydice. At the start of that work, this author invokes a list of gods in order that they might 'favour a bold beginning'. At the end of another work by this author, the sight of the sword-belt of Pallas drives its normally *pious* title character to kill the defeated Turnus in a fit of anger. Book 4 of that work ends with the Carthaginian Queen Dido immolating herself on a pyre. For ten points, name this Roman poet, the author of the *Georgics* and the *Aeneid*.

ANSWER: **Virgil** [Publius Vergilius Maro]

2. One of these institutions in Mettray is discussed in one work subtitled 'the birth of' this institution. Angela Davis has criticised these non-military institutions as forming a 'complex' with industry. In a work titled for one of these institutions, the idea of cultural hegemony was introduced by Antonio Gramsci. Jeremy Bentham suggested one type of this institution in which the inhabitants never know when they are being watched, its 'panopticon' type. Discussed by Michel Foucault in *Discipline and Punish*, for ten points, name these institutions which include Strangeways, Belmarsh and Wormwood Scrubs.

ANSWER: **Prisons** / **Jails** / **Penal** systems

3. The title character of one film from this country hypnotises Cesare, leading him to murder while sleepwalking. The protagonist of another film from this country has the film's title letter chalked onto his palm as he runs from a crowd, and frequently whistles *In the Hall of the Mountain King*. In addition to *The Cabinet of Dr Caligari* and *M*, both from this nation's "expressionist" movement, Leni Riefenstahl's film *Triumph of the Will* depicted a party congress in this nation's city of Nuremberg. For ten points, name this country where director Fritz Lang clashed with the Nazis.

ANSWER: **Germany** [or **Deutschland**; or **Third Reich**; prompt on **Austria**]

4. This writer wrote a disjointed letter to Thomas Wentworth Higginson asking if he thought their verse was "alive". One poem by this person ends "And then the Windows failed – and then / I could not see to see –". In another poem, this poet described a phenomenon which "sings the tune without the words -And never stops - at all". One of this poet's works how "The carriage held but just ourselves/And Immortality" after a the title character "kindly stopped for me." For 10 points, name this reclusive American poet, author of "Hope is the thing with feathers –", and "Because I could not stop for Death."

ANSWER: Emily **Dickinson**

5. The Battle of Chacabuco led to the independence of this modern-day country, where one of its early heads of state fought alongside Jose de San Martin. A military dictator from this country used the 'Caravan of Death' death squad to consolidate his power, and employed the 'Chicago Boys' to implement neoliberal market reforms. The first elected socialist president of this country nationalised American-owned copper mines in this country, and committed suicide in a 1973 coup. For 10 points, name this South American country, whose heads of state included Bernardo O'Higgins, Augusto Pinochet and Salvador Allende.

ANSWER: **Chile** <FCM>

6. These compounds are conjugated with Coenzyme A in order to be transported by the carnitine shuttle. Once inside the mitochondrion, these compounds are broken down via successive beta oxidations to give two Acetyl CoA molecules. The "oleic" example of these compounds can be hydrogenated into the "stearic" type using a nickel catalyst in order to prevent oxidative rancidity. Fish oil is rich in polyunsaturated examples of these such as the omega-3 variety. For ten points, what long chain carboxylic acids bond to glycerol to form triglycerides?

ANSWER: **Fatty Acids** (Prompt on **Carboxylic Acids** before mention)

7. In a world full of superheroes, this actor played a character named Mr. F.G. Superman, who responded to a broken vehicle as his alter ego Bicycle Repair Man. In a film role, this actor claimed to have a 'friend in Wome' called 'Biggus Dickus'. A character played by this actor was shot in the head after revealing he did not sell any dairy goods, and another shopkeeper played by him tried to persuade John Cleese's character that his Norwegian Blue was simply 'resting'. For ten points, name this travel broadcaster, best known for his membership of Monty Python.

ANSWER: Michael **Palin**

8. The lower and middle reaches of this river is the habitat of the baiji and an 18th century English name for this river was the "Blue River", which fell out of use as it was entirely unrelated to its local name. An upstream reach of this river flows through the Three Parallel Rivers World Heritage Site in Yunnan, alongside upstream portions of the Salween and the Mekong. This river is the longest in the world to flow entirely within one country and is the site of the world's largest hydroelectric power station, the Three Gorges Dam. For 10 points, name this major Chinese river, the longest in Asia.

ANSWER: **Yangtze** River [accept **Chang Jiang** or **Yangzi Jiang**]

9. The protagonist of this novel spends some time as a human sniffer dog whilst lost with a platoon in the Sundarbans. That protagonist of this novel loses his memory after being hit on the head with a silver spittoon. One character in this novel becomes the most famous singer in West Pakistan, having previously been called the Brass Monkey. She is the sister of Saleem Sinai, this novel's protagonist, who was swapped at birth with Shiva-of-the-knees. For 10 points, name this novel about the children born in the first hour after Indian Independence by Salman Rushdie.

ANSWER: **Midnight's Children**

10. A fanfare by this composer opens with what they describe as a 'rhythmically dissonant' pattern, with the trumpets and clarinets opposing a constant wood block beat. This composer depicted J. Robert Oppenheimer before and after the Trinity Test in their opera *Doctor Atomic*. Another opera by this composer opens with a chorus singing military doctrines like 'The People Are The Heroes Now', before the work's title character arrives on the Spirit of '76 and meets with Zhou Enlai. For ten points, name this American minimalist composer, best known for works like *Short Ride in a Fast Machine* and *Nixon in China*.

ANSWER: John **Adams**

11. The details of the 1983 Heathrow Brink's-Mat robbery, of £26mn worth of gold and diamonds, were clarified by these documents, which Bastian Obermayer was the first person to receive. The release of these documents led to the resignation of Iceland's Prime Minister Sigmundur Gunlaugsson, and also revealed the extent of David Cameron's tax avoidance; they were largely sourced from the firm Mossack Fonseca. Preceding the 2017 release of similar documents dubbed 'Paradise', for ten points, name this collection of 11.5 million leaked documents concerning offshore companies, originating from a certain Central American country.

ANSWER: **Panama** Papers (accept **Mossack Fonseca** papers or equivalents)

12. One value denoted by this Greek letter is equal to precisely five thirds for a monatomic ideal gas, and is in general equal to the ratios of heat capacity at constant pressure and constant volume. Another value denoted by this letter is equal to one minus  $v$ -squared over  $c$ -squared to the power of minus one half and is a multiplicative factor in the relativistic Lorentz transforms. For ten points, name this Greek letter, which also names high-frequency EM radiation released during radioactive decay of atomic nuclei, contrasted with 'alpha' and 'beta' decay.

ANSWER: **Gamma**

13. Immediately after this event, Jesus heals a leper, then heals the servant of a centurion in Capernaum. During this event, a prayer is taught which asks God to 'forgive us our debts, as we forgive our debtors'. A shorter version of this event is presented 'in the Plain' in the Gospel of Luke. The first words spoken in this event are 'Blessed are the poor in spirit,' the first of the eight Beatitudes; later, the listeners are told to 'consider the lilies of the field', to 'judge not, that ye be not judged', and to 'seek, and ye shall find'. For 10 points, name this event in the Gospel of Matthew, the longest continuous speech of Jesus in the Bible.

ANSWER: The **Sermon on the Mount** [prompt on **Beatitudes** before mention]

14. The first poem of a collection by this author describes how "The squat pen rests" whilst the speaker watches his father performing the title action. In another poem, this author stated that "the great slime kings were gathered here for vengeance". One poem by this author, who produced a notable 1999 translation of Beowulf,

commemorates his brother's death in a car accident with the line "A four-foot box, a foot for every year". For 10 points, "Digging" and "Mid-Term Break" appear in *Death of a Naturalist*, an anthology by which Irish Nobel laureate?

ANSWER: Seamus **Heaney**

15. After completing the construction of a cathedral, this ruler is alleged to have remarked "Solomon, I have outdone thee." The court official Tribonian authored the *Corpus Juris Civilis*, a collection of influential legal texts contained within this ruler's namesake "Codex". This ruler was alleged to be a demon by the "Secret History" of his follower Procopius. The conquest of the Vandal kingdom in North Africa was led by this man's general Belisarius. For 10 points name this 6th century Byzantine ruler who sought to restore the Roman Empire by recapturing its western territories.

ANSWER: **Justinian I** [or the **Great**]

16. In the Canadian film *One Week*, an English teacher buys one of these things after being diagnosed with cancer. A 2004 Che Guevara biopic is based on his diaries titled for these things. The Steppenwolf song "Born To Be Wild" features on the soundtrack of a film in which Peter Fonda and Dennis Hopper stuff their money inside one of these things, before setting off "to find America". In another film, "The Cooler King" steals one of these things to jump a barbed-wire fence on the Swiss-German border. For 10 points, name these vehicles which feature heavily in films such as *Easy Rider* and *The Great Escape*.

ANSWER: **Motorcycles** or **motorbikes** [accept **Harley Davidsons**]

17. Sir Tommy Lascelles [LASSLES] described this man as "the most attractive man I have ever met" but later resigned as his private secretary due to this man's "loose morals". During the Second World War, this man served as Governor of the Bahamas. This man used the nickname "Cookie" for the Queen Mother and "Shirley Temple" for the future Elizabeth II, his niece. It was rumoured that Adolf Hitler intended to place this man on the British throne. For 10 points, name this Duke of Windsor, whose insistence on marrying Wallis Simpson led to his 1936 abdication.

ANSWER: **Edward VIII** [Accept the **Duke of Windsor** before mention]

18. In the climax of *It Follows*, Jay, Paul and Yara try to kill their assailant in one of these places. Burt Lancaster starred in an adaptation of a John Cheever story about a man attempting to travel home via a series of these places. The lead single from Kendrick Lamar's album *good kid, m.A.A.D city* is titled for these places, in reference to the image of one of them "full of liquor". In *The Graduate*, Benjamin Braddock replies that he is "just drifting" when his father asks why he is spending all his time in one of these places. For 10 points, Jay Gatsby is found dead in what kind of location, where Michael Phelps has won 28 Olympic medals?

ANSWER: **Swimming pools**

19. These sort of people were said to meet on the Auld Kirk Green in North Berwick and the pamphlet *Newes from Scotland* detailed their activities. Heinrich Kramer procured the papal bull *Summis Desiderantis Affectibus* after a failed trial of these people in Innsbruck, and also produced a book whose title means "the Hammer of [these people]", the *Malleus Maleficarum*. Nine women and two men were tried at Pendle in Lancashire for being these kinds of people. For 10 points, give this name for people who were accused of communing with the devil through familiars and practicing magic.

ANSWER: **Witches**

20. The A-star algorithm performs one form of this task for graphs, while the Rabin-Karp algorithm performs this task for strings via the use of hash functions. One algorithm which performs this task for ordered lists in logarithmic time repeatedly divides the initial list in half and is known as the 'binary' method for this task. General methods for this task necessarily have complexity  $O(n)$  ["Big-O of n"] as each element must be individually compared to the desired element. For ten points, name this programming task which locates a certain object in a set, and which names 'engines' such as Google.

ANSWER: **Search**

## **Bonuses:**

1. It's not a wolf, but the Olmecs believed in a "were-" form of this animal. For 10 points each:

[10] Name this largest cat native to the Americas, which appears frequently in the mythologies of Mesoamerican civilizations.

ANSWER: **Jaguar**

[10] This Aztec god was closely associated with the jaguar. This god of the night sky and brother of Quetzalcoatl was also associated with obsidian, and his name translated as "Smoking Mirror".

ANSWER: **Tezcatlipoca**

[10] The hero Xbalanque [SHEE-BALAN-KAY] is usually depicted wearing a jaguar pelt. He appears in the myths of this civilization, notably as one of the "Hero Twins" in the Popol Vuh.

ANSWER: **Mayan** [accept **K'iche**]

2. The Canadian academic Lynn McDonald controversially wrote that this woman's "tea and lemonade" did not save lives or advance healthcare. For 10 points each:

[10] Name this Jamaican nurse, who set up the "British Hotel" to care for wounded soldiers during the Crimean War.

ANSWER: Mary **Seacole**

[10] Since her death, Mary Seacole's role in the Crimea has often been compared to that of this other nurse. This "Lady with the Lamp" was known for making nightly rounds of wounded soldiers.

ANSWER: Florence **Nightingale**

[10] In 2016, a controversial statue of Seacole was erected at this London hospital, overshadowing a nearby statue of Nightingale. Whilst Nightingale established this hospital's nursing school, Seacole had never set foot in there.

ANSWER: **St Thomas'** Hospital

3. Useful attributes of this organism include the fact that it only has eight chromosomes, lays an absurd amount of eggs and reproduces rapidly. For ten points each:

[10] Name this very common model organism, a small insect also known as *Drosophila melanogaster*.

ANSWER: **Fruit fly** (take *Drosophila* before mention)

[10] This popular fish model organism can regenerate its skin, heart and brain; other reasons for its popularity among biologists are its consistently-sized, transparent embryos and its fully sequenced genome.

ANSWER: **Zebrafish** or **Danio** (rerio)

[10] This broad type of fungal single-celled model microorganisms includes *S. cerevisiae*, the first eukaryote to have its DNA fully sequenced. It is perhaps better known for its use baking bread and brewing beer.

ANSWER: **Yeast** (accept specific types like **brewer's' yeast** or **baker's' yeast**)

4. Answer some questions about some fun thought experiments in philosophy, for ten points each:

[10] This Islamic philosopher used the idea of a 'floating man' spontaneously created and suspended in midair, who nonetheless has knowledge of his existence, to provide evidence for the soul. His *Book of Healing* is his best-known work.

ANSWER: **Avicenna** [accept **Ibn Sina**]

[10] A thought problem in ethics asks whether it is right to divert a runaway one of these vehicles to kill one man, or to let it continue on its original path and kill five.

ANSWER: **Trolley** [prompt on **tram** or **train**]

[10] Gettier problems, such as a man with ten coins in his pocket, are used to prove that this philosophical concept is not equivalent to justified true belief. Correctly answering this question does not prove that you possess this concept.

ANSWER: **Knowledge**

5. Delacroix's painting *Liberty Leading the People* does not commemorate the French Revolution of 1789 but that of 1830, which replaced one king with another. For 10 points each:

[10] This man who came to power in 1830 emphasised the popular nature of his rule by becoming the King of the French, not France. He was forced to abdicate in the French Revolution of 1848.

ANSWER: **Louis-Philippe**

[10] This event, prompted by the death and funeral of General Lamarque, sought to replace Louis-Philippe's government with a republic.

ANSWER: **June Rebellion** / **Paris Uprising of 1832**

[10] Along with the Battle of Waterloo and the Parisian sewer system, the June Rebellion is a major focus of this novel by Victor Hugo.

ANSWER: Les Misérables

6. One phrase spoken by this character is “Illiterate him, I say, quite from your memory.” For 10 points each:

[10] Name this character from a 1775 comedy of manners, who frequently replaces words with others which sound similar, but make no sense in the context. She gives her name to the term which describes such errors of speech.

ANSWER: Mrs Malaprop [accept malapropisms]

[10] Mrs Malaprop is the guardian of Lydia Languish in this play. Lydia rejects her suitors Bob Acres and Sir Lucius O’Trigger in this play for a man posing as ‘Ensign Beverley’ named Jack Absolute.

ANSWER: The Rivals

[10]: The Rivals was written by this Irish playwright and MP, who also wrote The School for Scandal.

ANSWER: Richard Brinsley Sheridan

7. For a settlement of just 18,000 people, a lot of interesting stuff has happened in this city. For 10 points each:

[10] Name this small city in eastern France. An 843 Treaty named for this city divided up the Carolingian Empire between the three sons of Louis the Pious.

ANSWER: Verdun

[10] In 1870, Verdun was the last French fortress to surrender in this war, following French losses at the Siege of Metz and the Battle of Sedan. France lost this war to the forces of Otto Von Bismarck.

ANSWER: Franco-Prussian War [or Franco-German war]

[10] Lasting for about nine months in 1916, the Battle of Verdun was one of the bloodiest battles in this international war, with as many as a million soldiers thought to have died in it.

ANSWER: World War One or The First World War or The Great War

8. This country has been without an Executive since January after the power-sharing agreement between the DUP and Sinn Féin broke down. For 10 points each:

[10] Name this country, where an ongoing political crisis has been rocking the Assembly at Stormont.

ANSWER: Northern Ireland (prompt on “Ireland”, do NOT accept or prompt on “Republic of Ireland”)

[10] The collapse of Stormont was precipitated by the resignation of this Sinn Féin politician, who served as Deputy First Minister under the DUP leaders Peter Robinson and Arlene Foster and died shortly after his resignation.

ANSWER: Martin McGuinness

[10] McGuinness resigned primarily over this failed environmental initiative overseen by Foster, which will cost each individual taxpayer around £400. Under this tremendously ill-conceived policy, “the more you burned, the more you earned”.

ANSWER: Renewable Heat Incentive [accept Cash for Ash]

9. In his first Six Nations in 2000, this centre scored three tries against France, and upon retiring in 2014 was the record try scorer in Six Nations history. For ten points each:

[10] Name this centre, who after Ritchie McCaw is the second-most capped player in international rugby union history. This player won three Heineken Cups while playing for Leinster.

ANSWER: Brian O’Driscoll (accept Bod)

[10] O’Driscoll played for this international team, winning Six Nations with them in 2009 and 2014. Other recent leading players for this international team include Ronan O’Gara and Paul O’Connell.

ANSWER: Ireland

[10] O’Driscoll was controversially dropped for the final test of the 2013 Lions tour by this head coach. As well as leading Lions tours in 2009 and 2013, this man has also won three Six Nations as Wales coach since 2007.

ANSWER: Warren Gatland

10. One member of this family, Jessica, wrote a book exposing abuses in the funeral-home industry titled The American Way of Death. For 10 points each:

[10] Name this aristocratic family which included Diana, Unity and Nancy, the latter of whom wrote the novels Love in a Cold Climate and The Pursuit of Love, and the essay collection Noblesse Oblige.

ANSWER: Mitford family [or Mitford sisters]

[10] Nancy Mitford’s essay collection Noblesse Oblige included “an open letter” on the class debate written by this author, who corresponded with Mitford for 22 years. This author also wrote Scoop and Brideshead Revisited.

ANSWER: Evelyn **Waugh**

[10] Name either of the two terms coined by Nancy Mitford to illustrate the class differences in British society. They refer to the different words used to describe everyday objects, like napkin or serviette, and mirror or looking-glass.

ANSWER: **U** or **Non-U**

11. Many architects helped design planned cities over the course of the twentieth century. Name some of them, for 10 points each:

[10] Including a hyperboloid-shaped cathedral, many buildings in this South American city were designed by Oscar Niemeyer when his nation's capital was moved to this city from Rio de Janeiro.

ANSWER: **Brasilia**

[10] This Franco-Swiss architect produced the master plan for the Indian city of Chandigarh. His other works include the Villa La Roche and the Villa Savoye.

ANSWER: Le **Corbusier** [accept Charles-Edouard **Jeanneret**-Gris]

[10] This English architect largely designed the other Indian city of New Delhi, in collaboration with Sir Herbert Baker, and also left a redevelopment plan for Kingston-upon-Hull at his death in 1944.

ANSWER: Edwin **Lutvans**

12. This was the regnal number of Edward, the only male heir of Henry VIII, and of Henry, a two-time King of England who was the subject of three Shakespeare plays. For ten points each:

[10] Give this regnal number of the most recent King George of the United Kingdom, who died in 1952.

ANSWER: **Six**

[10] This boy appears in the collection of verse *Now We Are Six*, along with his best friend Winnie-the-Pooh. A 2017 film starring Domhnall [pronounced Donal] Gleeson is titled *Goodbye* this character.

ANSWER: **Christopher Robin** [prompt on partial answers]

[10] Tricia Helfer portrayed Six, a model of the Cylon robots, in this 2000s reimagining of a 1970s science fiction series. Other characters in this series include Admiral Adama, played by Edward James Olmos.

ANSWER: **Battlestar Galactica**

13. One novelist from this island, Leonardo Sciascia, described the operations of its Mafia in the novel *The Day of the Owl*. For 10 points each:

[10] Name this large island off the south of Italy, also the setting of Elio Vittorini's novel *The Woman of Messina*.

Answer: **Sicily**

[10] This 1958 novel, the only one written by Giovanni Tommaso di Lampedusa, describes the changes of the Sicilian Risorgimento through the life of the Salina family. It takes its name from a figure on the family's insignia.

Answer: *The **Leopard*** [or *Il **Gattopardo***, or *The **Serval***]

[10] This Sicilian author of *Henry IV* wrote plays which are forerunners of the Theatre of the Absurd. His play *Six Characters in Search of an Author* centres on an interrupted rehearsal of his other play *The Rules of the Game*.

Answer: Luigi **Pirandello**

14. Welsh administrative geography is a little bit confusing. For 10 points each, answer some questions on the historic distribution of Welsh counties.

[10] This county, noted by the Romans as a druidic centre, is Wales's only island historic county, separated from the mainland by the Menai Strait.

ANSWER: Isle of **Anglesey** (accept **Ynys Môn**)

[10] This historic county is by far the most populous in Wales, containing both Cardiff and Swansea. It is also the only area of Wales with a first class cricket team.

ANSWER: **Glamorgan**shire (accept **Morgannwg** or **Sir Forgannwg**)

[10] This northeasternmost historic county is the smallest in mainland Wales by area and is also notable for being the only one to have a large, non-contiguous exclave, known as English Maelor. The county town lies on the Dee estuary, facing the Wirral.

ANSWER: **Flintshire**

15. The change in this quantity can be calculated using Hess's law. For 10 points each:

[10] Name this quantity, given by U plus PV and often symbolised H. A change in it is positive for endothermic reactions.

ANSWER: **Enthalpy**

[10] This quantity is proportional to the average kinetic energy of the particles in the system. It is equal for two systems in thermal equilibrium and is measured with a thermometer.

ANSWER: **Temperature**

[10] The change in this quantity gives the amount of work that can be done by a thermodynamic system at constant volume. This quantity is equal to the internal energy minus the product of temperature and entropy..

ANSWER: **Helmholtz free energy**

16. For 10 points each, answer the following about the life and works of the pop culture icon Gemma Collins:

[10] Collins first came to fame on the ITV2 structured reality show *The Only Way is Essex*, which has prominently featured her on-again off-again relationship with this man, the best friend of star Mark Wright.

ANSWER: James “**Arg**” Argent

[10] Gemma has since appeared on several other reality shows including *Splash!* and *Celebrity Big Brother*. However, her stint on this reality show famously lasted just 72 hours after she struggled to cope in the jungle.

ANSWER: **I’m a Celebrity**... Get Me Out of Here!

[10] Most recently, Collins went viral after falling into a trapdoor onstage at the Radio 1 Teen Awards. She fell onto Marcel, Amber and Jamie, three of the stars of this smash-hit reality show presented by Caroline Flack.

ANSWER: **Love Island**

17. This opera is perhaps best known for its very beautiful *Intermezzo*, which plays before Alfio and Turiddu fight a climactic duel. For 10 points each:

[10] Name this Pietro Mascagni opera about adultery in rural Sicily, often performed in a double bill with Ruggero Leoncavallo’s *Pagliacci*.

ANSWER: **Cavalleria Rusticana** [accept “**Rustic Chivalry**”]

[10] *Cavalleria Rusticana* is considered one of the great examples of this operatic tradition. Whereas Romantic operas often concerned gods, kings and mythological stories, operas in this Italian style focused on the lives of ordinary people.

ANSWER: **Verismo** [prompt on **Realism**]

[10] *La Traviata* is sometime considered a precursor to the verismo movement. It is a work of this Italian composer, who is also known for operas such as *Aida*, *Nabucco* and *Il Trovatore*.

ANSWER: Giuseppe **Verdi**

18. A 2016 work by Oxford historian Peter Frankopan argued that the history of the world should be framed around this route. For 10 points each:

[10] Name this network of overland trade routes, which brought its namesake commodity from China to Europe.

ANSWER: The **Silk Road**(s) [Accept **Silk Route**]

[10] The Black Death and the collapse of the Mongol empire severely damaged Silk Road Trading in the late Middle Ages. However, it saw some revival under the three “gunpowder empires”: the Ottomans, Mughals, and this Islamic Persian empire who ruled from Isfahan.

ANSWER: **Safavids**

[10] Another ancient trade route carried this substance, known as the “gold of the north” from the Baltic Sea to the Mediterranean, particularly via rivers like the Vistula and the Dnieper.

ANSWER: **Amber**

19. Aarne and Thompson developed a system to categorise this genre of works. For 10 points each:

[10] Name this stories such as one where a miller’s daughter finds her betrothed is part of a gang of murderers; “The Robber Bridegroom”, and one where two children find a house made of sugar and cake in the forest.

ANSWER: **fairy tales** [or **folktales**; or **folklore**; or other reasonable equivalents]

[10] “The Robber Bridegroom” and “Hansel and Gretel” are amongst the fairy tales collected by these two German brothers, Jacob and Wilhelm.

ANSWER: The Brothers **Grimm** [or Jacob Ludwig Carl **Grimm**; or Wilhelm Carl **Grimm**]

[10] Another author of fairy tales was this 17th-century Frenchman, who wrote the original versions of *Cinderella*, *Little Red Riding Hood* and *Sleeping Beauty*.

ANSWER: Charles **Perrault**

20. Asymmetric variants of this reaction can use molecules such as phenyl glycinol and cyclic ketimines as chiral auxiliaries. For 10 points each:

[10] Name this reaction in which a cyanide anion reacts with a carbonyl in the presence of ammonium chloride to form an aminonitrile, which is subsequently hydrolysed to form its most useful products.

ANSWER: **Strecker** Reaction/Synthesis

[10] The Strecker reaction is used to synthesise these simple molecules that contain both an amine and a carboxylic acid, the monomers of proteins.

ANSWER: **Amino Acids**

[10] The development of asymmetric amino acid syntheses is important, as in nature, amino acids are only found in one of these isomeric forms which are mirror images of each other.

ANSWER: **Enantiomers**