

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 6:

The previous tossup should have been on Bill Bailey:

### Tossups:

1. Compression in this organ leads to Carrier's Constraint, which explains why some reptiles only run in short bursts. The Pores of Kohn link adjacent structures in this organ, whose capillaries are the main site of angiotensin-converting enzyme. A form of cancer in this organ can lead to Lambert-Eaton syndrome, that cancer is small cell carcinoma. This organ is surrounded by the pleura, and is made to expand by the costal muscles and diaphragm. For ten points, what are these organs filled with alveoli and the site of gas exchange?

ANSWER: lungs <JR>

2. A study by Watanabe et al. showed that these animals could be trained to match the ability of university students to tell the difference between Van Gogh and Chagall paintings. White Vision, Winkie and Tyke, the first animals to receive medals for their conduct in WWII, were all this type of animal, as was the last survivor of one particular species, Martha. It has been suggested that these animals use the Earth's magnetic field in order to navigate home over unfamiliar territory. With varieties including the 'wood', 'passenger' and 'rock', for ten points, name this widely urbanised bird.

ANSWER: Pigeon [accept passenger, domestic, rock pigeon; prompt on dove; prompt on bird] <JK>

3. Richard J. Herrnstein and Charles Murray have argued that society is separating into an 'elite' formed of people with a high score on these tests, in a book titled for the *Bell Curve* distribution which scores from these tests take. Raw scores on these tests, which can be measured by the Stanford-Binet scale, have been rising steadily over the twentieth century, in a phenomenon called the Flynn effect. If an individual scores in the top 2% of the population on these tests they are eligible to join Mensa. For ten points, name these standardised tests, which purportedly measure human intelligence.

ANSWER: IQ tests [or Intelligence Quotient tests] <JK>

4. In this novel, the protagonist's husband is scathingly described as "a great bladder for dried peas to rattle in" by Mrs Cadwallader. A banker in this novel causes the death of John Raffles to cover up his past as a dodgy pawnbroker. That banker is Nicholas Bulstrode, whose daughter Rosamund Vincy spends money so extravagantly that she ruins her husband Tertius Lydgate. In this novel, Edward Casaubon dies having altered his will to stop Will Ladislaw marrying his widow, Dorothea Brooke. For 10 points, name this "study of provincial life" by George Eliot.

ANSWER: Middlemarch <EJW>

5. Henry Fielding and Daniel Defoe campaigned against this substance, which was consumed in its namesake "Palaces". Five Parliamentary Acts limited the production of this substance, after a so-called "Craze" for it in the 18th century. This drink was imported from the Netherlands after an increased tax on French brandy, and it was sometimes made cheaply from turpentine. Known as "Mother's Ruin", William Hogarth contrasted the evils of drinking this spirit with the merits of drinking beer. For 10 points, name this spirit made from juniper berries.

ANSWER: gin [prompt on alcohol] <JS>

6. One character in this novel accidentally suffocates a flu-ridden robbery victim by gagging him; that character later falls for a veiled resident at the Ennet House recovery house. One character in this novel directed a film whose viewers want nothing more than to view it again, known as “The Entertainment”. A game simulating nuclear warfare using tennis balls as atomic bombs named Eschaton is played by students at the Enfield Tennis Academy in this novel. The Incandenza family appear in, for 10 points, which novel by David Foster Wallace?

ANSWER: Infinite Jest <FCM>

7. *A Dance of the Savages* opens the final act of an opera-ballet by a composer from this country who wrote an early explanation of tonality based on “natural principles” in his *Treatise on Harmony*. The authors of the *Magnus Liber*, Pérotin and Léonin, are both thought to be from this country. A composer who worked in this country died of gangrene after striking his foot with his conducting staff mid-performance. Jean-Phillipe Rameau and Jean-Baptiste Lully were court composers in, for 10 points, what country in which Guillaume de Machaut wrote the Notre Dame Mass?

ANSWER: France <BS>

8. According to one version of this deity’s namesake myth, his wife found his body in a chest in Byblos which was lodged in a tamarisk tree. Late versions of this myth say that this god was dismembered by his rival into 42 parts, the same as the number of nomes in his kingdom. Nephthys and this god’s wife search for this god, who is restored with the help of Thoth and Anubis. Horus is conceived by this god and Isis after his restoration, and then fights this god’s killer, Set. For 10 points, name this Egyptian god of the afterlife, depicted with the crook and flail and mummified.

ANSWER: Osiris <OSC>

9. One of these actions was described by one participant as a ‘moment of truth’, and unusually involved another world leader and his wife simultaneously. Emmanuel Macron was praised for his firm response to that action, which lasted 33 seconds, while another awkwardly long instance of these actions involved an uncomfortable Shinzo Abe. One of these actions threw Supreme Court nominee Neil Gorsuch off balance due to one participant’s use of the so-called ‘pull-and-pat’ technique. For ten points, name these formal greetings in which Donald Trump often tries to get the upper hand.

ANSWER: (Donald Trump’s) hand shakes [accept word forms; prompt on greetings, meetings, and so on] <JK>

10. This figure composed a lullaby which includes the lyrics “Darkness won’t engulf my head / I can see by infrared.” One of his legs is the silver pillar of strength, which is part of the key to the Wikkit gate. This being is left with no weaponry to stop a Frogstar Class D tank which he convinces to demolish the floor beneath itself, and this being, with a “brain the size of a planet”, earlier convinced a police ship to commit suicide solely by talking to it whilst on the surface of Magrathea. For 10 points, name this permanently depressed “paranoid android” who accompanies Arthur Dent in the Hitchhiker’s Guide to the Galaxy.

ANSWER: Marvin <CS>

11. The logarithm of one type of this quantity is related to temperature by the Antoine equation. Poiseuille’s Law allows one to calculate the change in this quantity over the length of a pipe. Charles’ Law applies when this quantity is held constant. In certain fluids, this quantity at a point can be calculated as the product of fluid density, the acceleration due to gravity, and the depth. This quantity is dimensionally equivalent to stress and to energy density, and processes for which this quantity is held constant are called isobaric. For ten points, name this quantity measured in bars or pascals.

ANSWER: pressure [accept vapour pressure or partial pressure] <JK>

12. Nationalists of this region use an unofficial coat of arms called the Zazpiak Bat, which combines the arms of a claimed seven provinces, and the inhabitants of this region invented the sport of pelota. This region was the base of the terrorist group, ETA [EH-tuh], and the San Fermin festival, including the famous running of the bulls, occurs in

Pamplona within this region; though this region's largest city is Bilbao. For 10 points, name this region of south-western France and north-western Spain, home to a linguistically-isolated eponymous people.

ANSWER: the **Basque** Country [accept **Euskadi**, **Pays Basque** or **Pais Vasco**]

13. This novel describes two kinds of womanisers: those that enjoy the variety of different partners, and those that strive in vain to find a single perfect partner. An artist in this novel declares a "war on kitsch" and opens the door to a lover wearing nothing but her grandfather's bowler hat. Philosophical sections in this novel examine the German saying "Einmal ist keinmal", or "once is nothing", and Nietzsche's theory of eternal recurrence. For 10 points, name this existentialist novel about the adulterous liaisons of Tomas and Tereza, by Czech author Milan Kundera.

ANSWER: *The **Unbearable Lightness of Being*** <Tom>

14. A side mission in one game in this series requires the player to shoot an NPC called Face McShooty in the face. 'Sirens' in this series of games include Angel, who helps the player until it is revealed that she is the daughter of Hyperion CEO Handsome Jack. Another character rescues the player from a train crash at the start of the second game in this series, and refers to them as their 'minion' throughout; that annoying one-eyed robot is Claptrap. For ten points, name this video game series developed by Gearbox, in which the player kills enemies like skags and psychos as one of four 'vault hunters'.

ANSWER: **Borderlands** [accept **Borderlands 2**, as all the clues are from that; anti-prompt on '**Borderlands: The Pre-Sequel**' or '**Tales from the Borderlands**'] <FCM>

15. One artist from this country drew a number of realistic 'crawling creatures' in his work *The Insect Book*. One series of works from this country included *Rain on a town by the coast*, and consisted of 53 depictions of 'stations' on a road in this country. Art from this country was said by Van Gogh to have inspired all of his work. Another series featured 36 "views" of a mountain in this nation, including a print featuring *The Great Wave off Kanagawa*. For 10 points, name this Asian nation home to Utamaro and Hiroshige, which inspired Hokusai's prints of Mount Fuji.

ANSWER: **Japan** <JK>

16. Followers of the 12th century Persian sufi Qadir Gilani used these flowers as a symbol. This flower gives its name to the 2003 peaceful revolution in Georgia. The facades of the cathedrals of Reims, Chartres and Notre-Dame all bear an architectural feature named for these flowers. A necklace named for these flowers was supposedly given to St Dominic, and is used in Catholic prayer. For 10 points, name these flowers, whose white and red varieties appeared on the heraldic badges of York and Lancaster, and which thus name the series of wars between the two houses.

ANSWER: **roses** <Tom>

17. According to a *General History* of these people by the otherwise unknown author Charles Johnson, a group of them lived in colony called Libertatia in Madagascar. After Hayreddin Barbarossa captured Algiers with Ottoman support, it became a major base for a group of these people. In 1801 the United States blockaded Tripoli in an attempt to stop the actions of these people. Richard Phillips was captured on the *Maersk Alabama* by a group of these people operating off Somalia. For 10 points, name these people whose Caribbean examples include Blackbeard.

ANSWER: **pirates** [accept **privateers**] <OSC>

18. In a novel by this writer, a philosopher becomes irritated when Augustus Carmichael asks for a second serving of soup. In that novel by this author, a woman becomes upset when Charles Tansley tells her son James that the weather is too bad to visit the title structure. This writer, who described the Ramsay family's holiday to the Isle of Skye, also wrote an essay imagining Judith Shakespeare, which argues that a woman must have money and the title place to write fiction. For 10 points, name this English writer of *To The Lighthouse* and *A Room of One's Own*.

ANSWER: Virginia **Woolf** <Tom>

19. One person from this country asked his son “Do you not know with how little wisdom the world is governed?” whilst at a peace conference. A queen of this modern-day country who corresponded with Rene Descartes abdicated after converting to Catholicism. A king of this country was known as the Lion of the North for his military interventions in the Thirty Years War. The Kalmar Union was ended by Gustav Vasa’s rebellion in this country. For 10 points, Queen Christina and Gustavus Adolphus both ruled which Scandinavian kingdom, which was once ruled jointly with Norway and Denmark?

ANSWER: **Sweden** <JS>

20. Bose gases will only obey Bose-Einstein statistics when a quantity named for this physicist is less than or equal to the cube root of the volume of the gas over the number of gas particles. David Bohm rediscovered and extended this physicist’s work on a hidden variable theory of quantum mechanics called pilot-wave theory. This man proposed that a particle’s momentum is equal to Planck’s constant divided by a wavelength named for him. For 10 points, name this French physicist who proposed the wave-particle duality of matter.

ANSWER: Louis **de Broglie** <YY>

### **Bonuses:**

1. To differentiate it from similarly-named newspapers, this UK-based publication began printing on salmon-pink paper. For 10 points each:

[10] Name this business-focused daily newspaper whose lifestyle section is controversially titled “How to Spend It”.

ANSWER: *The **Financial Times*** [accept **FT**]

[10] This “agenda-setting” column on the back page of the FT’s main section contains general market analysis. Its alumni include Nigel Lawson and Jo Johnson.

ANSWER: **Lex**

[10] The FT is owned by this conglomerate whose “100” is an index of blue-chip Japanese companies.

ANSWER: **Nikkei** <EM>

2. Apart from the balaclava being named after a place, a number of people involved in the Crimean War gave their names to types of clothing. For 10 points each:

[10] This man led the Charge of the Light Brigade at the Battle of Balaclava, and had a button-up knitted jumper named after him. Jumpers named after this man were notably worn by Mr. Rogers and the Big Lebowski.

ANSWER: James Brudenell, 7th Earl of **Cardigan**

[10] This type of shirt, with a sleeve extending to the neck, is named after a general who lost an arm at the Battle of Waterloo, and commanded the British forces in Crimea until his death at the Siege of Sevastopol.

ANSWER: **Raglan** shirt [or **Raglan** sleeve]

[10] Lord Wolseley, who lost an eye at Sevastopol, gave his name to a type of this specific kind of headgear. It is particularly associated with soldiers of the British Empire stationed in Africa and Asia.

ANSWER: **pith** helmet [accept **safari** or **sun** helmet] <Alex>

3. This character is described as “that huge bombard of sack, that stuffed cloak-bag of guts, [...] that reverend vice, that grey iniquity, that father ruffian, that vanity in years.” For 10 points each:

[10] Name the character described, who appears in several of Shakespeare’s plays; he spends much of his time in the Boar’s Head Inn in Eastcheap.

ANSWER: Sir John (‘Jack’) **Falstaff**

[10] This character gives that description of Falstaff, and pretends to be his friend so that “being wanted, he may be more wondered at”. Another speech given by this character in a different play begins “Once more unto the breach, dear friends, once more”.

ANSWER: Prince **Hal** [accept **Henry V**; prompt on **Henry**]

[10] Falstaff appears onstage in both parts of *Henry IV* as well as in this other play, a comedy supposedly requested by Elizabeth I. In it, he hides in a linen basket, then dresses up as a woman, only to be beaten as a suspected witch.

ANSWER: *The **Merry Wives of Windsor*** <Alex>

4. One character in this play is nicknamed “Blue Roses” on account of another mishearing the name of her medical condition, pleurosis. For 10 points each:

[10] Name this play about Amanda Wingfield’s attempt to set up her daughter Laura with a ‘gentleman caller’. When Laura dances with Jim O’Connor, the potential suitor, a unicorn from the title collection has its horn broken.

ANSWER: *The **Glass Menagerie***

[10] This American playwright wrote *The Glass Menagerie*, and featured Blanche DuBois in his play *A Streetcar Named Desire*.

ANSWER: (Thomas Lanier) “Tennessee” **Williams** (III)

[10] Williams coined this term to describe *The Glass Menagerie*, along with *A Streetcar Named Desire* and *Summer and Smoke*. It refers to the fact that the events have already happened to one of the characters.

ANSWER: **memory** play <Alex>

5. Contrary to popular belief, the medieval Church did not ban the translation of the Bible in the vernacular. For 10 points each:

[10] This translation of the Bible into Latin by St Jerome was the most commonly used throughout the Middle Ages; it was made the official text of the Roman Catholic Church at the Council of Trent.

ANSWER: The **Vulgate** Bible [or Biblia **Vulgata**]

[10] This early eighth-century masterpiece of Insular illumination was given a word-for-word gloss into Old English in the tenth century, making it the oldest surviving translation of part of the New Testament into an English language.

ANSWER: *The **Lindisfarne Gospels***

[10] This Dutch humanist published the first printed Greek New Testament in 1516. It was used as the source for most later Protestant translations, including that of Martin Luther, though this man remained a Catholic.

ANSWER: Desiderius **Erasmus** <Alex>

6. For 10 points each, answer some questions on standards used in the Mohs hardness scale.

[10] Research is being done into using this mineral for invisibility cloaks because it is naturally birefringent. It is defined to be 3 on the Mohs scale and is the primary constituent of limestone, marble and many marine organisms.

ANSWER: **calcite** [prompt on **calcium carbonate**; prompt on **chalk**]

[10] This mineral is 7 on the Mohs scale. It is used in watches as an electric oscillator as some varieties are piezoelectric.

ANSWER: **quartz**

[10] The orthoclase variety of this mineral is 6 on the Mohs scale. It is the most common mineral on earth and consists of a mixture of aluminosilicates.

ANSWER: **feldspar** <LW>

7. This conflict was ended by the Peace of Caltabellotta, which confirmed Charles II as King of Naples, and Frederick III as the King of Trinacria. For 10 points each:

[10] Name this conflict, which began with a wave of anti-French violence in Palermo, and an eventual uprising against Charles of Anjou.

ANSWER: War of the **Sicilian Vespers**

[10] The Sicilian rebels appealed for help to Peter III, the ruler of this kingdom. Rulers of this kingdom in eastern Spain also controlled the County of Barcelona and the Kingdom of Valencia.

ANSWER: Aragon

[10] The Pope tried to mediate in the War of the Sicilian Vespers by offering the Aragonese a newly created kingdom, consisting of these two islands. The respective capitals of these two islands are Ajaccio and Cagliari.

ANSWER: Corsica and Sardinia <Tom>

8. When this man was burnt at the stake, he first thrust his hand into the fire to punish it for having signed a rejection of his own beliefs.

[10] Name this 16th century Archbishop of Canterbury, architect of much of the Anglican reformation, who was executed by Mary I.

ANSWER: Thomas Cranmer

[10] While serving as Henry VIII's archbishop, Cranmer demonstrated his political versatility by helping to write this 1539 Act, which asserted Catholic doctrine in the English Church. It is known by the number of beliefs it stated.

ANSWER: Act of Six Articles

[10] Cranmer's most famous work was this book, published during the reign of Edward VI. It gave us many phrases now familiar to English, such as 'ashes to ashes' and 'till death do us part'.

ANSWER: The Book of Common Prayer <JS>

9. One work by this composer is based on 21 poems of Albert Giraud and is titled for a commedia dell'arte character. For ten points each:

[10] Name this serialist composer whose works include *Pierrot Lunaire*, who conducted the "Skandalkonzert" in which his first Chamber Symphony was performed..

ANSWER: Arnold Schönberg

[10] Schönberg's most famous work is probably this string sextet based on a poem by Richard Dehmel about a couple walking through the woods on a moonlit night.

ANSWER: Transfigured Night [accept Verklärte Nacht]

[10] Schönberg, along with his pupils Berg and Webern made up the "second school" of this Austrian city, whose earlier composers included Haydn, Schubert and Beethoven.

ANSWER: Vienna <CS>

10. One bronze sculpture with this name consists of the powerful pose of a headless man, while another bronze work with this name by a later artist has absurdly long, thin limbs. For ten points each:

[10] Give this common title shared by sculptures of human figures in motion by Auguste Rodin and Alberto Giacometti.

ANSWER: *The* Walking Man [or *L'homme qui marche* (I)]

[10] Giacometti was pictured walking next to *The Walking Man* with a similar pose to his sculpture by this French photographer. A master of candid photography, he was known for his belief in the "decisive moment".

ANSWER: Henri Cartier-Bresson

[10] Giacometti was a native of this country, growing up near its border with Italy. He later attended the school of fine arts in its city of Geneva.

ANSWER: Switzerland <JK>

11. Answer some questions about the current generation of young players for both Tottenham and England, for ten points each:

[10] This striker has won the Premier League Golden Boot for each of the last two seasons, the first English player since 2000 to do so. England secured their place at the 2018 World Cup when this man scored against Slovenia.

ANSWER: Harry Kane

[10] This versatile defensive midfielder is the most recent England captain, leading the national team in friendlies against Germany and Brazil. Having grown up in Portugal, this player joined Tottenham in 2014.

ANSWER: Eric **Dier**

[10] This midfielder has been named PFA Young Player of the Year for the last two seasons. After a transfer from MK Dons, this player made his Spurs debut at the age of 19 in 2015.

ANSWER: **Dele Alli** [either name acceptable] <FCM>

12. This man found that the current through a wire depends inversely upon its length. For ten points each:

[10] Who is this German physicist, whose law states that  $V=IR$ . He also names the unit of electrical resistance.

ANSWER: Georg **Ohm** [accept **Ohm**'s law]

[10] Ohm's law can be used in conjunction with these other laws to solve DC circuit problems. These laws state that the signed currents at a junction sum to zero and that the emf around a closed loop is zero.

ANSWER: **Kirchoff**'s laws

[10] In these circuits, Kirchoff's laws are unwieldy and symmetry can be used when they are 'balanced'. These circuits can be used to measure resistance and specific examples are named for Wheatstone and Maxwell.

ANSWER: **bridge** circuits <JR>

13. Institutions founded by this man included the New York Post and the United States Coast Guard. For 10 points each:

[10] Name this first Secretary of the Treasury. You may have heard of the smash-hit musical based on this Founding Father's life and untimely death in a duel with Aaron Burr.

ANSWER: Alexander **Hamilton**

[10] Hamilton wrote 51 of this series of 85 essays supporting the ratification of the United States Constitution, alongside John Jay and James Madison. The trio used the pseudonym "Publius" to write these essays.

ANSWER: **Federalist** Papers

[10] James Madison went on to serve as president, and John Jay to serve as the first holder of this other high-ranking position. Jay turned down a second term in this position to become Governor of New York.

ANSWER: **Chief Justice** of the United States Supreme Court [prompt on "**Justice**"] <EJW>

14. One novel written with this character as its protagonist also features Lyudmila and Professor Uzzi-Tuzii, as well as fictional books like *Outside the Town of Malbork*. For 10 points each:

[10] Name this character, which is the subject of all second-person narratives.

ANSWER: **you** [or the **reader**, or reasonable equivalents]

[10] One novel written in second person is *If on a Winter's Night a Traveller*, a novel by this Italian author of *Invisible Cities*. It interleaves the plot of the reader's life with excerpts from novels the reader finds on his journeys.

ANSWER: Italo **Calvino**

[10] This French author and member of the Oulipo movement wrote the novella *A Man Asleep* in second-person. He is perhaps better known for *Life: A User's Manual* and *La Disparition*, a novel written entirely without the letter 'e'.

ANSWER: Georges **Perec** <JK>

15. The Golden Triangle is a name given to several different, distinct geographic regions. For 10 points each, answer some questions on three of them.

[10] Probably the most famous Golden Triangle is a region of South-East Asia that is noted for the production of this narcotic derived from poppies.

ANSWER: **opium** [prompt on **heroin** or other opiates]

[10] Another Golden Triangle, still in South-East Asia, is a commercial district of this city, the capital of Malaysia.

ANSWER: **Kuala Lumpur**

[10] This Golden Triangle is formed of three major Indian tourist hotspots: Delhi, Agra and this other city, the largest in Rajasthan, home to the Hawa Mahal.

ANSWER: **Jaipur**

16. One character in this film earns money by repeatedly claiming the reward on a wanted criminal, then freeing him from being hanged in order to increase the reward. For ten points each:

[10] Name this film, in which Clint Eastwood, Lee Van Cleef and Eli Wallach play the title characters who search for \$200,000 in gold treasure buried in a cemetery.

ANSWER: **The Good, the Bad and the Ugly** [accept **Il buono, il brutto, il cattivo**]

[10] *The Good, the Bad and the Ugly* was Clint Eastwood's third collaboration with this Italian director, whose other 'spaghetti Westerns' include *For a Few Dollars More* and *Once Upon a Time in the West*.

ANSWER: Sergio **Leone**

[10] This conflict is the setting of *The Good, the Bad and the Ugly*, including a battle over a bridge. *Gone with the Wind* is set in Georgia before, during and after this conflict.

ANSWER: **American Civil** War [or **US Civil** War; prompt on partial answers] <FCM>

17. This document identified five "Giant Evils" - squalor, ignorance, want, idleness and disease - which it argued should be eradicated by compulsory flat-rate national insurance. For 10 points each:

[10] Name this 1942 document, whose suggestions proved central to social reforms implemented by Clement Attlee's Labour government.

ANSWER: the **Beveridge Report** [accept **Social Insurance and Allied Services**]

[10] Beveridge's proposals looked to build on earlier reforms introduced by this party under Henry Campbell-Bannerman and H. H. Asquith. The 1909 "People's Budget", drafted by chancellor David Lloyd George, was central to this party's welfare initiatives.

ANSWER: **Liberal** Party [do NOT accept "Liberal Democrats"]

[10] Before Attlee's election, the Beveridge Report had been derided by many of Labour's "old-guard". One critic was this former trade union leader, who served as foreign secretary throughout Attlee's government.

ANSWER: Ernest **Bevin** [do NOT accept "Aneurin Bevan" or "Nye Bevan", and ask them to repeat if there is any doubt] <Tom>

18. This is the only one of its author's plays in which a gun is present on stage, but not fired. For 10 points each:

[10] Name this play by the author of *Uncle Vanya*, which concerns the auction of Madame Ranevskaya's family estate in order to pay its debts.

ANSWER: **The Cherry Orchard**

[10] *The Cherry Orchard* is a play by this Russian playwright, who also created the character Boris Trigorin in *The Seagull*.

ANSWER: Anton **Chekhov**

[10] The premieres of *The Cherry Orchard* and Chekhov's other major plays were all directed by this man, who later developed a namesake system for the training of actors.

ANSWER: Konstantin **Stanislavski** <Alex>

19. A high concentration of this ion is found in the sarcoplasmic reticulum. For ten points each:

[10] Name this ion, whose binding to cardiac troponin-C causes myosin binding sites on actin filaments to be uncovered. Voltage gated channels named for this ion are present on the sarcolemma.

ANSWER: **calcium** [or **Ca<sup>2+</sup>** ("calcium-two-plus")]

[10] The influx of calcium ions into the sarcomere is the first stage in the contraction of this striated tissue, whose fundamental unit is the sarcomere. Tendons attach this tissue to bone.

ANSWER: (Striated) **muscle**

[10] In smooth muscle, contractions are slow because receptors that couple to these proteins trigger a signalling cascade to cause contraction. Receptors coupled to these proteins have seven transmembrane domains.

ANSWER: **G** proteins <JR>

20. One of the central arguments of this work concerns whether it is better to live a just or an unjust life, and this work is closely linked to its author's other dialogue *Timaeus*. For 10 points each:

[10] Name this work of classical philosophy about justice and the ideal society. A set of people who live their entire lives looking at shadows cast on a wall appear in the Allegory of the Cave in this work.

ANSWER: The ***Republic*** [or ***Politeia***]

[10] The *Republic* and the *Timaeus* were both written by this classical philosopher. This philosopher's teacher Socrates appears as a character in both of those works.

ANSWER: **Plato**

[10] The ideal city described in the *Republic* is ruled over by these people, who combine positions of authority with extensive knowledge and wisdom. These people share wives and children, and are selected on merit.

ANSWER: **philosopher-kings** [prompt on partial answer] <Alex>