The 2018 Scottie

Written and edited by current and former players and coaches including Todd Garrison, Tyler Reid, Olivia Kiser, Anish Patel, Rajeev Nair, Garrison Page, Mason Reid, Parker Bannister, Daniel Dill.

Packet Five

TOSSUPS

1. **This artist shows each of the titular trio holding an apple in *The Three Graces*, which may have been part of a diptych. Another of his works features Mary reading a book while John the Baptist holds the title creature. This artist of *Madonna of the* (*)** *Goldfinch* inserted himself next to two men holding spheres underneath a large arch in another work. That work is displayed in the *Stanza della Segnatura* and features Plato and Aristotle at its center. For 10 points, name this Italian painter of *The School of Athens.* (DD/TR)
ANSWER: **Raphael** [or **Raffaello** **Sanzio** da Urbino; or **Raffaello** **Santi**; accept any underlined portion]

2. **The 2006 Nobel Prize in Chemistry was awarded to Roger D. Kornberg for studying this process. Zinc finger domains often control the rate of this process, which in prokaryotes is signaled by the Pribnow box. Introns are (*)** spliced during this process, and retroviruses use a namesake enzyme to undergo its "reverse" form. For 10 points, name this process in which DNA is copied into a complementary strand of RNA. (MR)
ANSWER: **transcription**

3. **One character in this novel fulfills a prophecy when he slipped on sunflower oil and is killed by a tram. That character, Berlioz, had earlier headed the Massolit literary club. Azazello tells one of the title characters of this work to fly around (*)** Moscow, and the poet Bezdomny meets an author in an asylum who wrote about Pontius Pilate. Satan disguises himself as Professor Woland in, for 10 points, what novel about an author and his love, by Mikhail Bulgakov? (GP)
ANSWER: The ***Master and Margarita***

4. **The Carrier Corps were formed in this nation during World War I. It is home to the Giriama and Kikuyu peoples, and its founder was succeeded by Daniel arap Moi. A conflict in this nation had rebel forces led by General China and (*)** Dedan Kimathi and saw the trial of the Kapenguria Six. For 10 points, name this nation currently led by Uhuru Kenyatta from Nairobi.(RN)
ANSWER: **Kenya**

5. **Srinivasa Ramanujan names a type of this things which has arbitrarily long arithmetic sequences according to the Green-Tao theorem. A discovery by Yitang Zhang about these entities led to the Polymath8 Project, which reduced the maximum space between them. (*)** Goldbach's conjecture states that every even integer greater than 2 is the sum of two of these numbers, and Euclid proved that there are infinitely many of these numbers. For 10 points, name these numbers only divisible by one and themselves. (RN)
ANSWER: **prime** numbers

6. **This organization was investigated by the Lexow Commission and its last leader was Carmine DeSapio. The Locofocos were a party led by William Leggett in opposition to this group that supported Al Smith in the election of 1928. Aaron Burr was a leader in this (*)** political organization that was depicted by cartoonists like Thomas Nash as a tiger. Boss Tweed once dominated, for 10 points, what New York City Pro-Irish Democratic political machine? (RN)
ANSWER: **Tammany Hall**

7. **In one of this man's works, the protagonist is told 18 different stories by the title "decorated" figure. One of the stories in that collection, "The Veldt", centers on an automated nursery that projects images of lions. In another work, Eckels strays off of the path on a (*)** dinosaur hunt, and changes the future by killing a butterfly. For 10 points, name this American science-fiction author of the *Illustrated Man* and "A Sound of Thunder."(DD)
ANSWER: Ray **Bradbury**

8. **This building only took 410 days to construct after the demolition of the Waldorf-Astoria, which had been on the plot previously. The 200-foot tower at the top of this building was originally intended as a docking station for dirigibles. When this building was completed in 1931, the dedication ceremony involved President (*)** Hoover pressing a button that turned on its lights. For 10 points, name this famous art-deco skyscraper located on 5th Street in New York City.(PB/TG)
ANSWER: **Empire State Building**

9. **This composer created the works *Become Water* and *Inuksut* to describe the nature of Alaska. One work by this man was criticized as glorifying terrorism and details the hijacking of the *Achille Lauro*. Another opera by this man features the "This is Prophetic" aria sung by the wife of the title character, who flies in The Spirit of '76. This composer of (*)** *On the Transmigration of Souls* based another of his works on the Manhattan Project**.** For 10 points, name this minimalist composer of *Doctor Atomic* and *Nixon in China*. (RN)
ANSWER: John **Adams**

10. **This person's memoir *Wishful Drinking*, chronicling her drug addiction and bipolar disorder, was made into a documentary in 2010. Meryl Streep starred in a movie based on this person's semi-autobiographical novel *Postcards from the Edge,* and this actress's mother, Debbie Reynolds, starred in *Singing in the Rain*. In the famous (*)** trilogy this actress starred in, she often had to shoot scenes while standing on a box because she was nearly a foot shorter than Harrison Ford. For 10 points, name this actress that portrayed Princess Leia in the Star Wars movies.(TG)
ANSWER: Carrie **Fisher**

11. **The Stockholder Theory is one name for this economist's controversial view that the only social responsibility a company has is to increase profits for its shareholders. This co-author of *Free to Choose* won a Nobel for Economics in part for "for his achievements in the fields of consumption analysis" and (*)** "monetary history and theory". For 10 points, name this founder of the Chicago school of economics who authored *Capitalism and Freedom* and *A Monetary History of the United States.* (TG)
ANSWER: Milton **Friedman**

12. **This event was organized by a leader known as "Apis," and it sparked the Salonika Trials. The perpetrator of this event was given a 20 year prison sentence and his actions led to the issuing of the July Ultimatum. This action was first attempted using a grenade which hit the wrong vehicle and it was later completed by another member of the (*)** Black Hand. For 10 points, name this event in which an heir to the Austro-Hungarian throne was killed by Gavrilo Princip, sparking the First World War.(RN)
ANSWER: **assassination** of Archduke Franz **Ferdinand** of Austria [accept reasonable equivalents; prompt on partial answer]

13. **A man in this story hangs a dog from a bridal hook with a handkerchief. That protagonist, an adopted orphan from Liverpool, returns to the title location as a wealthy man after disappearing for three years. This novel begins with a frame story, in which (*)** Nelly Dean relates events of thirty years prior to the tenant of Thrushcross Grange. In this story, Lockwood learns the story of the Linton family after seeing graffiti in his bedroom. For 10 points, Catherine Earnshaw and Heathcliff are tragic figures in this work by Emily Bronte. (TG)
ANSWER: *__Wuthering Heights__*

14. **Comoe National Park is located in the northeastern corner of this country in its Zanzan and Savanes Districts. The largest church in the world, The Basilica of Our Lady of Peace, is located in this country's capital city. Queen Abla Pokou is the legendary (*)** founder of this country named for a product that is now mostly illegal to trade. For 10 points, name this country that is bordered on the east by Ghana and whose capital is Yamoussoukro.(PB)
ANSWER: **Ivory Coast** [accept:**Côte d'Ivoire**]

15. **Following this conflict's Battle of Colenso and the Black Week, General Butler was replaced as commander of one side by Lord Roberts. The Fawcett Commision investigated the use of concentration camps in this war which saw the failed (*)** Jameson Raid. This war was ended by the Treaty of Vereeniging, resulting in a loss of independence for the Orange Free State and the Transvaal. For 10 points, name this conflict fought between the British and namesake Dutch settlers in South Africa. (RN)
ANSWER: **Second Boer** War [prompt on Boer War; do not accept or prompt on First Boer War]

16. **Hugo Schiff names one type of these substances similar to azomethines, and sodium amide is a "super" example of these compounds. In Lewis theory, these compounds are electron pair donors, and in Bronsted-Lowry theory, they are defined as proton (*)** acceptors. Sodium hydroxide is one of these compounds often known as lye or caustic soda, and they turn litmus paper blue. For 10 points, name these compounds with pH greater than 7. (MR)
ANSWER: **bases**

17. **One play by this writer sees a deceased Emperor and his wife summoned to the title event, which is interrupted by Eshuoro. Along with *A Dance of the Forests,* this playwright describes a dictator who demands yams from the king's nephew, Daodu, in *Kongi's Harvest.* Lakunle refuses to pay (*)** Sidi's bride-price in one of this author's plays, and in another, Olunde commits a ritualistic suicide after Elesin tries to postpone it. For 10 points, name this Nigerian playwright of *The Lion and the Jewel* and *Death and the King's Horseman.* (GP)
ANSWER: Wole **Soyinka** [or Akinwande Oluwole **Soyinka**]

18. **Francis Asbury, a blacksmith, was one of the first bishops appointed in this denomination in the United States and was part of the 2nd Great Awakening. Attempts for this Protestant denomination to reunite with the Church of England (*)** failed in 1969 and 1972. The movement that led to the founding of this religion began when brothers Charles and John formed a "Holy Club" while at Oxford. For 10 points, name this group whose early leaders included John Wesley and George Whitefield. (TG)
ANSWER: **Methodists** or [**Methodism**; prompt on "Wesleyanism" before Wesley]

19. **Roderick Chisolm argued for this philosophical concept by distinguishing between event and agent causation. Objections to a common definition of this idea raise concerns about compulsive desires, and its counterpart argues that every event is a (*)** direct result of prior events. Compatibilists dismiss this idea's namesake problem by saying it can coexist with determinism. For 10 points, identify this philosophical concept, the ability to consciously make choices. (TR)
ANSWER: **free will** [or clear equivalents like "freedom of the will"; prompt on "freedom," "choice," and similar answers]

20. **When one of these devices is freely suspended, it orients itself perpendicular to the motion of the Earth. An equation named after Laplace is used to calculate these devices namesake quantity. When placed in parallel, these devices are more (*)** effective, but in series their effect is diminished. These devices contain plates designed to increase the surface area, and an insulator called a dielectric. For 10 points, name these circuit components whose effectiveness is measured in Farads. (MR)
ANSWER: **capacitor**

BONUSES

1. (*Moderator note: Accept, but do not reveal "Shakespeare" for the first answer.*)This poem says "Sometime too hot the eye of heaven shines" and claims that "this gives life to thee." For 10 points each: (GP)
[10] Name this poem which answers a question by saying "Thou art more lovely and more temperate."
ANSWER: **Shall I compare thee to a summer's day**? [accept Shakespeare's **Sonnet 18**]
[10] This British bard wrote the aforementioned sonnet, as well as the narrative poem *Venus and Adonis*.
ANSWER: William **Shakespeare**
[10] Many of Shakespeare's later sonnets refer to his passion for this woman. Her name is based on Shakespeare's descriptions of her, and Aline Florio and Lucy Morgan are two of her proposed identities.
ANSWER: The **Dark Lady**

2. In this opera, one character sings "*Vecchia zimarra*" after having to sell his overcoat for medicine. For 10 points each: (DD)
[10] Name this opera centering on the lives of poor Parisian artists and the relationship between the poet Rodolfo and Mimi.
ANSWER: *La Bohème*
[10] This man composed *La Bohème*, as well as other works like *Tosca* and *Madame Butterfly*.
ANSWER: Giacomo **Puccini**
[10] This work by Jonathan Larson is a modern retelling of *La Bohème*. It focuses on artists in New York's East Village.
ANSWER: *Rent*

3. Three of these beings were the children of Ouranos and Gaia, and they created the Thunderbolts of Zeus. For 10 points each: (MR)
[10] Name these giants in Greek myth who had a singular eye in the center of their forehead.
ANSWER: **Cyclopes** [accept anything that sounds like someone tried to make cyclops plural]
[10] In Homer's Odyssey, this god was referred to as the father of the Cyclopes. He was also the father of the winged horse Pegasus.
ANSWER: **Poseidon**
[10] During the Gigantomachy, Poseidon quarreled with this giant, who was also the son of Ouranos and Gaia. He was killed when a mountain was thrown on top of him.
ANSWER: **Polybotes**

4. For 10 points each, name the following about the presidency of Franklin Pierce.(RN)
[10] Pierce defeated this Whig candidate in the election of 1852. This war hero formulated the Anaconda Plan and was known as "Old Fuss and Feathers."
ANSWER: Winfield **Scott**
[10] Pierce's Secretary of State urged that the US either purchase or annex Cuba in this controversial document.
ANSWER: **Ostend Manifesto**
[10] Pierce is the only president ever elected from this state which was founded by John Wheelwright. This state is currently governed by Chris Sununu.
ANSWER: **New Hampshire**

5. The 2018 FIFA World Cup was declared to be "the best World Cup ever" by FIFA President Gianni Infantino. Answer some questions about it, for 10 points each. (TR)
[10] Kylian Mbappe became the second teenager to score in a World Cup Final en route to this nation lifting the trophy. Other stars for this nation include Antoine Griezmann and Paul Pogba.
ANSWER: **France**
[10] The Golden Ball award for best player went to this Croatian midfielder. He is known for his excellent passing and dribbling skills at Real Madrid.
ANSWER: Luka **Modric**
[10] The use of VAR played a part in a record-shattering 29 of these calls being awarded. VAR allows reviewing of potential fouls in the box, which lead to these kicks "from the spot."
ANSWER: **penalty** kicks [or **penalties**]

6. For 10 points each, answer some questions about the most populous landlocked nation in the world. (RN)
[10] This never-colonized East African nation has been led by individuals such as Menelik II and Mengistu.
ANSWER: **Ethiopia**
[10] Ethiopia became landlocked following the secession of this nation to its North with capital at Asmara.
ANSWER: **Eritrea**
[10] From 1984-1985 Ethiopia faced one of these events while under the rule of Mengitsu. These events are characterized by a widespread shortage of food.
ANSWER: **famine**

7. This anion of hydrogen can form binary compounds with almost all of the elements. For 10 points each: (MR)

[10] Give the name of this anion, whose chemical formula is H minus.

ANSWER: **Hydride**

[10] Negatively charged anions are contrasted with these positively charged ions.

ANSWER: **Cations**

[10] The H+ ion is often found in this form, in which it is bonded to a water molecule.

ANSWER: **Hydronium** [accept **H3O+**]

8. Answer some questions about a divisive German philosopher, for 10 points each: (RN/TR)

[10] This German philosopher authored *The Science of Logic* and *Elements of the Philosophy of Right*. The concept of *Geist* is central to his work.

ANSWER: Georg Wilhelm Friedrich **Hegel**

[10] This 1807 Hegel work describes a "struggle for recognition" in the master-slave dialectic. It is principally concerned with the development of consciousness.

ANSWER: *The **Phenomenology of Spirit*** [or The ***Phenomenology of Mind*** or ***Phänomenologie des Geistes***]

[10] Hegel's thinking would later influence this American thinker, the author of such works as "Self Reliance" and "Nature."

ANSWER: Ralph Waldo **Emerson**

9. A right rectangular prism has dimensions of 3 x 4 x 8. For 10 points each: (TG)

[10] What is the volume of the prism in cubic units?

ANSWER: **96**

[10] What is the length of the space diagonal for the prism?

ANSWER: **radical** of **89** [**square root** of **89**]

[10] Suppose you are going to paint the exterior of the prism except for its top and bottom. What is the least amount of square units that you will paint? You have 10 seconds.

ANSWER: **72**

10. One character in this novel shoots a man who tries to prevent his family from reaching Canada. For 10 points each:
[10] Identify this novel, in which the eponymous character saves Eva St. Clare from drowning and is later killed by Simon Legree.
ANSWER: *Uncle Tom's Cabin* [or *Life Among the Lowly*]
[10] *Uncle Tom's Cabin* was written by this author. Abraham Lincoln addressed her as "the little woman who wrote the book that started this great war."
ANSWER: Harriet Beecher **Stowe**
[10] This other character in *Uncle Tom's Cabin* crosses the frozen Ohio river to gain freedom. She later discovers that Cassy is her mother while riding in a boat to Canada.
ANSWER: **Eliza** Harris

11. For 10 points each, answer these questions regarding the Norman conquest of England.
[10] The Norman conquest of England began after the death of this king who left no clear heir.
ANSWER: **Edward the Confessor** [prompt on "Edward"]
[10] The conquest was led by this Duke of Normandy who defeated Harold Godwinson in 1066.
ANSWER: **William the Conqueror** [prompt on "William"; accept **William I** or **William the Bastard**]
[10] William's victory over Harold took place at this 1066 battle in England.
ANSWER: Battle of **Hastings**

12. One of this author's poems opens by saying that "We cannot know his legendary head" before ending with the proclamation "You must change your life." For 10 points each: (OK)
[10] Name this poet of "Archaic Torso of Apollo", whose published collections include *Duino Elegies* and *Sonnets to Orpheus*.
ANSWER: Rainer Maria **Rilke**
[10] Rilke wrote in this language, which was also used by Bertolt Brecht and Herman Hesse.
ANSWER: **German**
[10] Another famous Rilke poem is about this type of feline, described as having "powerful soft strides." This type of cat is also the subject of an Ambrose Bierce short story.
ANSWER: **panther**

13. For 10 points each, answer the following about how and why people make decisions.
[10] The study of how and why people make decisions has come to be known as this field. John Nash is well known for contributing to this field.
ANSWER: **game** theory
[10] Nash has a namesake one of these states, which occurs when each player gains no benefits from changing their strategy. Several varieties of this state of balance exist in economics.
ANSWER: Nash **equilibrium**
[10] This example provides a situation where rational individuals may not cooperate despite it being in their best interest. Its most common formulation weighs confessing against remain silent.
ANSWER: the **prisoner's dilemma**

14. Many of this author's stories are set in Huron County, Ontario. For 10 points each:(OK)
[10] Name this Canadian author of short stories, who was the recipient of the 2013 Nobel Prize in Literature.
ANSWER: Alice **Munro**
[10] One of Munro's stories, "How I Met My Husband", ends with the protagonist marrying a man with this profession, who mistakenly believed she had waited every day for him.
ANSWER: **mailman**
[10] Munro's works are often compared to those of this man, in whose stories "little happens". These stories, including "The Lady with the Dog", are not the origin of his namesake gun.
ANSWER: Anton Pavlovich **Chekhov**

15. The design for this monument was so disliked by some members of Congress that a bronze statue of three soldiers was added. For 10 points each: (TG)
[10] Over 58,000 names are inscribed on the black granite walls of this sculpture.
ANSWER: **Vietnam** Veterans **Memorial** [accept **Vietnam Wall**]
[10] The Vietnam Veterans Memorial was designed by this American architect who also designed the Civil Rights Memorial in Montgomery, Alabama.
ANSWER: **Maya** Ying **Lin**
[10] Maya Lin crafted this sculpture on the campus of Yale out of green granite. The spiraling numbers on the sculpture represent the people to whom it is dedicated.
ANSWER: The **Women's Table**

16. This man is the only person to win the Nobel Prize in Physics twice; once in 1956 and again in 1972. For 10 points each: (MR)
[10] Name this American scientist and professor from the University of Illinois.
ANSWER: John **Bardeen**
[10] Bardeen's '56 Nobel was awarded for the invention of this circuit component that amplifies or switches power.
ANSWER: **transistor**
[10] Bardeen's '72 Nobel was awarded for his work on BCS theory, which explains this phenomenon.
ANSWER: **superconductivity**

17. These animals from the family Culicidae come in varieties such as aedes and anopheles. For 10 points each:(MR)
[10] Name these insects that transmit diseases such as yellow fever, dengue, and west Nile virus.
ANSWER: **Mosquitoes**
[10] This species of mosquito is named for the white bands on its legs and back
ANSWER: **Asian Tiger**
[10] Mosquitoes belong to this order of insects which contains flies and means "two wings."
ANSWER: **Diptera**

18. This organization fought a successful war against Denmark, and also faced the band of pirates known as the Victuals Brothers. For 10 points each: (OK)
[10] Name this confederation of German cities, with capital at Lubeck, that included cities like Hamburg and Visby.
ANSWER: **Hanseatic League**
[10] The Hanseatic League dominated trade in this sea, which is the world's largest source of amber.
ANSWER: **Baltic** Sea
[10] The Hanseatic League was founded after Henry the Lion, the Duke of Saxony and Bavaria, rebuilt Lubeck. Those duchies were constituent states of this polity, which at the time was ruled by the Hohenstaufen dynasty.
ANSWER: **Holy Roman Empire**

19. For 10 points, name these European capital cities.(PB)
[10] This northern European capital city is sometimes called "The Capital of Europe" because it serves as the de facto capital of the European Union.
ANSWER: **Brussels**
[10] The Reichstag and the Brandenburg Gate are two well-known sites in this German capital city that was also once home to a namesake wall.
ANSWER: **Berlin**
[10] The Maksimir Park and the Museum of Broken Relationships are both tourist attractions in this capital city of Croatia.
ANSWER: **Zagreb**

20. Colors that this host of "The Joy of Painting" often used included titanium white and cadmium yellow. For 10 points each: (MR)
[10] Name this man famous for painting "happy little trees" and for having an impressive afro.
ANSWER: Bob **Ross**
[10] On one of his shows, Ross did a painting entirely in grey for a man who said he would never be able to paint because he had this condition.
ANSWER: **color blind**ness
[10] Ross's show appeared on this network, which also aired shows such as "Reading Rainbow."
ANSWER: **PBS** or **Public Broadcasting Service**