

British Novice 2018

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Packet 05

Tossups

1. Soldiers raised the Ink Flag at the end of this country's war of independence. The Irgun and the Lehi were terrorist groups which agitated for the independence of this country. One-eyed tank commander Moshe Dayan controlled forces during several of this country's wars, and left its Mapai party to form Rafi following the Levon affair. Albert Einstein was offered the presidency of this country which was founded in 1948 following a declaration of independence by David Ben Gurion. For 10 points, name this country established in 1948 as a national homeland for Jews in Palestine.

ANSWER: **Israel** <DJ>

2. One theorem named for this quantity can be proven by applying Rolle's theorem to the quantity $f(x) - m \cdot x$ [f of x minus m times x]. This quantity is approximately normally distributed for large samples, according to the Central Limit theorem. A type of this quantity calculated by taking the nth root of the product of n numbers is always less than its arithmetic type, according to the AM-GM inequality. This quantity is calculated by summing the observed values and dividing by the number of values. Contrasted with the median and mode, for 10 points, name this type of average.

ANSWER: **mean** [accept arithmetic **mean** or geometric **mean**; accept **expectation**, or **expected value**, or **mean** value theorem; prompt on "average"] <JK>

3. One poem written in this language opens "What are we waiting for, assembled in the forum?" and is titled "Waiting for the Barbarians". A lignite mine manager seduces cafe owner Madame Hortense in a novel in this language, which was used by poet CP Cavafy. One novel in this language follows Alexis Zorba, while an earlier work in this language frequently uses epithets like 'rosy-fingered dawn'. For 10 points, name this language of Nikos Kazantzakis, who was much inspired by its ancient works like the *Iliad* and *Odyssey*.

ANSWER: (Modern) **Greek** <JK>

4. The leader of one side in this series of conflicts was captured by Robert Hammond, governor of the Isle of Wight, believing Hammond was sympathetic to their cause. The hunting poodle Boy belonging to one general in this series of conflicts was described as a 'dog-witch' in enemy propaganda. This series of conflicts was initiated after Jenny Geddes threw a stool in protest against the introduction of a new Prayer Book into Scotland. This conflict's first pitched battle took place at Edgehill and was inconclusive, although a later battle at Marston Moor proved more decisive. For 10 points, name this series of conflicts fought between Roundheads and Cavaliers.

ANSWER: The **Wars of the Three Kingdoms** [accept The English **Civil** War] <CP>

5. A 1999 Lenny Kravitz cover of a song by The Guess Who asks this kind of woman to "stay away from me". In one song whose title begins with this adjective, the speaker sings "Don't like his baggy jeans, but I might like what's underneath them...". A 2004 album whose title begins with this adjective opens with the title song which welcomes the listener to "a new kind of tension/all across the alienation". A song with

this titular adjective refers to “the day the music died”. For 10 points, name this adjective that describes Green Day’s “Idiot”, Don McLean’s “Pie” and Estelle’s “Boy”, which refers to the nationality of Kanye West. ANSWER: “**American**” [accept “**American** Woman”, “**American** Idiot”, “**American** Pie” or “**American** Boy”] <TDB>

6. A poem by this non-Burns author claims “much suspected by me / nothing proved can be”, and was written in diamond-point. After this person desired to see Falstaff in love, they allegedly requested the writing of *The Merry Wives of Windsor* in a fortnight. This person inspired a character originally called Tanaquil who sends the Redcrosse Knight to save Una’s kingdom from a dragon. This real-life person was personified as Gloriana in *The Faerie Queene*. For 10 points, name this monarch under whom Shakespeare’s early plays were written, a long-serving Tudor queen. ANSWER: **Elizabeth I** [prompt on “Elizabeth”]<JK>

7. This material dominates the most famous painting returned to Maria Altmann in 2006 after being plundered by the Nazis. Harking back to Byzantine works, this material was used for the background of works like the *Rucellai Madonna* by Duccio. This was the dominant material used by Benvenuto Cellini to produce the *Salt Cellar of Francis I*. This dominant material of a portrait of Adele Bloch-Bauer makes up the background of *The Kiss* by Gustav Klimt. For 10 points, name this metal often applied to art in ‘leaf’ form, or during gilding. ANSWER: **gold** leaf <JK>

8. A rule that governs how this variable reacts to a cost push shock is named for John Taylor. The problem of the zero lower-bound arises because this variable cannot be negative. The IS curve plots the relationship between output and this variable. Promises to raise this variable in the future are sometimes called forward guidance. Central banks like the Bank of England typically use this variable as a policy device in order to control inflation. When this quantity increases, the cost of borrowing increases, leading to decreased economic activity. For 10 points, name this variable, which determines the amount charged by a lender to a borrower. ANSWER: **interest rate** [accept real **interest rate** or nominal **interest rate**; accept more specific examples, like **LIBOR** or **Federal Funds Rate** or **FFR**]

9. A poet from this country, who wrote the poem *Five Bells*, is called Kenneth Slessor. Thomas Curnow betrays the title group in a novel from this country written entirely without commas. In a literary hoax in this country, modernist poems were attributed to the non-existent Ern Malley. In one novel a glass church is moved across this country by *Oscar and Lucinda*, a book by this country’s author Peter Carey, who included a criminal from this country in *The True History of the Kelly Gang*. For 10 points, name this country home to Thomas Keneally, who wrote about its Aboriginal people. ANSWER: **Australia** <JK>

10. Lines from Paul Verlaine’s “Autumn Song” were broadcast to tell some people about the timing of this event. Leonard Dawe was arrested at Strand School having been suspected of leaking secrets about this action through the Daily Telegraph Crossword. The second ranger battalion climbed up the Pointe du Hoc during this action. Operation Bodyguard sought to deceive the targets of this campaign that the planned landing site was in Pas-de-Calais, and this event established beachheads on Omaha, Utah, Gold, Sword and Juno beaches. For 10 points, name this landing which took place in Northern France on the 6th June 1944. ANSWER: **Normandy** landings [accept **D-Day** or Operation **Overlord**] <DJ>

11. One theory which describes this phenomenon considers the formation of bosonic quasi-particles as pairs of electrons become coupled. YBCO was the first material shown to exhibit this phenomenon above the boiling point of liquid nitrogen, in violation of BCS theory. In the Meissner effect, substances

displaying this phenomenon expel their internal magnetic fields. For 10 points, name this low-temperature phenomenon where substances lose all electrical resistance.

ANSWER: **superconductivity** [accept word forms]

12. This author described how a plague with which he was afflicted began soon after an invasion by Archidamus in a work he called a “possession for all time”. This writer was dismissed as a commander and exiled for his failure to save Amphipolis. This man’s description of civil strife on Corcyra contains the phrase “war is a violent teacher”, and the Athenians declare “the strong do what they can and the weak suffer what they must” at the end of the Melian Dialogue in this man’s only known work. For 10 points, name this Athenian historian who wrote the History of the Peloponnesian War.

ANSWER: **Thucydides** <OSC>

13. In *Doctor Who*, the Thirteenth Doctor's TARDIS includes a dispenser of these foodstuffs. These foodstuffs are usually stamped with an elaborate baroque design representing ferns. Alongside bourbons and ginger creams, a 'giant' version of these biscuits is sold by Costa Coffee. These biscuits were developed two years before the closely associated Bourbon Cream, and they contain neither of the foods referenced in their name. For ten points, name these pale sandwich biscuits with a vanilla-flavoured creamy filling.

ANSWER: **custard creams** [prompt on “biscuit” until mentioned] <DC>

14. An abandoned plan codenamed PA-2 was intended to build a sister ship to this ship for the French Navy. Unlike similar ships, this ship was not built with catapults, but was instead built with a ski-jump to launch the B-variant of its fast jets. This is the first aircraft carrier to have two islands on the flight deck. There is often confusion regarding the origin of this ship’s name, as it was named by the reigning monarch in 2014 whereupon it became the largest aircraft carrier in the Royal Navy. For 10 points, name this ship named after a 16th century “Virgin Queen”.

ANSWER: HMS **Queen Elizabeth** [accept **R08**; accept HMS **Prince of Wales** or **R09** before “first”] <JB>

15. In one opera by this composer, a schoolmistress sings the “Embroidery Aria” after finding a sweater she had knitted. The aria “The Great Bear and Pleiades” was premiered by this composer’s partner Peter Pears [“peers”] in an opera which includes the *Four Sea Interludes*. This composer included Wilfred Owen poems amongst the Latin mass in a work premiered at the consecration of Coventry Cathedral, his *War Requiem*. For 10 points, name this composer of the operas *Peter Grimes* and *The Turn of the Screw*.

ANSWER: Benjamin **Britten** <LC>

16. A character uses the technique of ‘deliberate anachronism’ to rewrite this work three centuries later in a Borges story about Pierre Menard. Characters in this novel’s second part claim to have read its first part, which features the miserable Cardenio, the funeral of the shepherd Grisostomo, and the burning of the protagonist’s library of chivalric books. The protagonist of this novel ‘tilts at windmills’, loves Dulcinea del Toboso, and is accompanied by Sancho Panza. For 10 points, identify this novel about the title ‘Man of La Mancha’, by Miguel de Cervantes.

ANSWER: **Don Quixote** <JK>

17. Less well-known songs by this band include ‘Delilah’; this band’s 1974 track ‘The Fairy Feller’s Master Stroke’ was inspired by a Richard Dadd painting. Although early albums by this band boasted that they contained ‘no synthesisers’, the instrument featured prominently on later albums such as *Hot Space* and *The Works*. This band’s final album, *Made in Heaven*, was released in 1995, four years after its lead singer’s death. For 10 points, name this British band whose guitarist is known for his stance against badger culling, and whose hits include ‘We Are The Champions’ and ‘Bohemian Rhapsody’.

ANSWER: **Queen** <NJ>

18. Prostacyclin inhibits an early stage of this process whilst T.X.A.2 promotes that stage of this process. In the extrinsic pathway of this process prothrombin is converted to thrombin. Vitamin K is a cofactor in this process which is inhibited by coumarins such as warfarin. The conversion of soluble fibrinogen to insoluble fibrin forms a thrombus in this process, whose early stages include platelets aggregating at the injury site. For 10 points, name this process that occurs on damage to blood vessels in which the blood forms a gel to prevent blood loss.

ANSWER: **coagulation** (or **clotting**) <JR>

19. Cherry Island, this lake's only remaining island, is an example of a crannog, an Iron Age artificial island. Urquhart Castle overlooks this lake, whose only natural island, Dog Island, was submerged by the connection at Fort Augustus of the Caledonian Canal. This lake in the Great Glen was the subject of a BBC-sponsored sonar scan in 2003, while the "surgeon's photograph" taken by this lake is now thought to edit out a toy submarine. For 10 points, name this long, deep, and murky lake in Scotland, supposedly home to a namesake monster.

ANSWER: **Loch Ness**

20. The creator god of this civilisation created a race of stone giants, but sent a flood to kill them all as they were unruly. Another god of this civilisation was worshipped at the Raymi festival and told his son to build a city where his golden staff sank into the ground. That son, Manco Capac, became the first emperor of this civilization. The sun god Inti was a major deity of this civilisation, whose "Temple of the Sun" was located on a mountain ridge in the Andes. For ten points, name this civilisation centred around Cusco who built Machu Picchu.

ANSWER: **Inca** [or **Quechua** prompt on **Peru**] <BB>

Bonuses

1. A poem in this collection ends with the line “What had has gone: the golden boat took all”. For 10 points each:

[10] Name this poetry collection, which opens with the line “thou hast made me endless, such is thy pleasure”. Other poems in this collection include “Let my Country Awake” and the aforementioned “Golden Boat”.

ANSWER: Gitanjali [or Song Offerings]

[10] The *Gitanjali* is a work by this Bengali poet, who also wrote the lyrics to the national anthem *Jana Gana Mana*.

ANSWER: Rabindranath Tagore

[10] Tagore’s *Jana Gana Mana* is the national anthem of this country. He also wrote the lyrics to the national anthem of this country’s Eastern neighbour, Bangladesh.

ANSWER: India <BB>

2. Many of this artist’s late paintings were painted in the garden of his house in Giverny [“ZHI-ver-nee”]. For 10 points each:

[10] Name this artist, whose painting of Le Havre harbour, *Impression, Sunrise*, gave rise to the name of the Impressionist movement.

ANSWER: Claude Monet

[10] In the early 1890s, Monet produced a series of around thirty paintings of the cathedral of this French city, showing it in a variety of different conditions and times of day.

ANSWER: Rouen

[10] Monet also painted a similarly comprehensive series focusing on this building, which J.M.W Turner had earlier painted while it was on fire. Unlike his paintings of Rouen Cathedral, the paintings of this building were completed using photographs.

ANSWER: The Palace of Westminster [accept the Houses of Parliament] <AP>

3. The melody for the theme for this piece begins with two crotchet Gs and a lower mordent on A, though the variations are actually on the bass line of that theme. For 10 points each:

[10] Name this set of thirty variations originally written for harpsichord, in which every third variation is a canon at increasing intervals from unison.

ANSWER: The Goldberg Variations

[10] The *Goldberg Variations* were written by this composer, notable for other keyboard works such as the *Well-Tempered Clavier* and the solo keyboard part in the fifth of their *Brandenburg Concertos*.

ANSWER: Johann Sebastian Bach [prompt on “Bach”]

[10] In 1955, this pianist recorded a notably fast version of the *Goldberg Variations* as their debut album. This pianist, who can often be heard humming in their recordings, re-recorded the *Variations* at a much slower tempo in 1981.

ANSWER: Glenn Gould <AP>

4. This wetland is home to species including the giant armadillo, jaguar and hyacinth macaw. For 10 points each:

[10] Name the world’s largest wetland. This UNESCO World Heritage Site is surrounded by the Cerrado savannas and the Planalto highlands.

ANSWER: Pantanal

[10] The Pantanal contains the sources of several rivers, including this river which gives its name to a South American country. Studies show that planned works to improve this river’s navigation would have a devastating effect on the Pantanal.

ANSWER: Paraguay River [or Rio Paraguay]

[10] Although the Pantanal extends into parts of Bolivia and Paraguay, it is largely located in the Mato Grosso region of this country, where it borders the Amazon rainforest

ANSWER: **Brazil** <NJ>

5. A poem by this author, which notoriously lost a competition in *The Lyric Year* to Orrick Johns, opens 'All I could see from where I stood / Was three long mountains and a wood'. For 10 points each:

[10] Name this American poet of *Renascence*. They are also known for their sonnets, such as one that begins 'Euclid alone has looked on beauty bare'.

ANSWER: Edna St Vincent **Millay**

[10] A short poem by Millay notes 'my [this object] burns at both ends / it will not last the night, / But oh my foes, and oh my friends, / It gives a lovely light!'

ANSWER: **candle**

[10] Another notable Millay poem is titled for a poem of this type 'of the harp-weaver'. Francis Child collected traditional British examples of these works, and a Kipling collection is titled for these works of the 'barrack-room'.

ANSWER: **ballads** [accept *Barrack-room Ballads*] <JK>

6. This poem opens on the evening of Maundy Thursday, and its protagonist soon encounters a lion, a leopard and a she-wolf before meeting Virgil. For 10 points each:

[10] Name this long poem, the first in a set of three, early in which the protagonist reads the inscription 'Abandon all hope, ye who enter here'.

ANSWER: **Inferno** [prompt on the *Divine Comedy* or *La Divina Commedia*]

[10] The *Inferno*, along with the *Purgatorio* and the *Paradiso*, forms the *Divine Comedy*, a work by this Italian poet.

ANSWER: **Dante Alighieri** [accept either part]

[10] A section from *Inferno* describing the later life of Ulysses is haltingly quoted by this author to a friend while walking to collect soup in his autobiographical work *If This Is A Man*.

ANSWER: Primo **Levi** <JK>

7. Henry VI led a Loveday procession as a public display of friendship with his rival during this series of conflicts. For 10 points each:

[10] Name this series of conflicts during which Richard, Duke of York claimed the throne in descent from Lionel of Antwerp.

ANSWER: Wars of the **Roses**

[10] At the second of the two battles named for this town, Henry VI, who had been captured at the first, is said to have spent it singing to himself while sitting under a tree, and was released after the Yorkist defeat.

ANSWER: **St Albans**

[10] In an attempt to reignite the Wars of the Roses, this Flemish pretender claimed to be Richard, Duke of York, one of the princes in the tower, but was executed in 1499.

ANSWER: **Perkin Warbeck** [accept either underlined portion]<N>

8. It can be dark in the oceans, but many animals can produce their own light. The general pathway for this behaviour relies on the oxidation of luciferins by luciferase enzymes. For 10 points each:

[10] Give the term for this trait, exhibited by the symbiotic bacteria of the bobtail squid, cookie cutter sharks and the viperfish, a general term for the production of light by living organisms.

ANSWER : **bioluminescence**

[10] Perhaps the most famous practitioners of bioluminescence are these deep-sea fish. Females of this group of fish suspend a glowing lure above the mouth in order to attract prey.

ANSWER: **angler** fish [accept **Lophiiformes**]

[10] The gene for this protein is often used as a reporter gene, to identify whether a sequence has been incorporated into the genome. This beta-barrel shaped protein is derived from the jellyfish *Aequorea victoria*.

ANSWER: **Green fluorescent** protein [or **GFP**] <LC>

9. Blues musician Robert Johnson is alleged to have performed this act in exchange for guitar-playing skills. For 10 points each:

[10] Name this diabolical act, often performed at a crossroads. Some myths claim the violin skills of Giuseppe Tartini and Niccolò Paganini were obtained in this manner.

ANSWER: **selling** your **soul** to the devil [accept obvious equivalents]

[10] Perhaps the best-known person to have sold his soul to the devil is this figure in German folklore, the subject of plays by Marlowe and Goethe.

ANSWER: **Faust** [or Doctor **Faustus**]

[10] The line 'in violent times you shouldn't have to sell your soul' appears in this 1984 Tears for Fears hit. This song's chorus implores the listener to perform the title action and 'let it all out'.

ANSWER: "**Shout**" <NJ>

10. The 1600 Battle of Sekigahara between the Eastern and Western Armies was critical in the establishment of this dynasty. For 10 points each:

[10] Name this last shogunate of Japan, which ruled from its castle which its founder had built at Edo at the expense of the *daimyos*.

ANSWER: **Tokugawa** shogunate

[10] The Tokugawa shogunate ended with this event of 1868 by which the emperor regained practical involvement in politics. It eliminated the *daimyos* and greatly accelerated industrialisation on a Western model.

ANSWER: **Meiji** Restoration

[10] The Meiji Restoration further saw the reform of the Japanese army and the virtual elimination of the privileges of this warrior elite, which observed a collection of codes of moral principles known as *bushidō*.

ANSWER: **samurai** [or **bushi**; or **buke**] <AP>

11. When most national anthems refer to people, they tend to be rather vague references like "Our gracious Queen". If you're really important though, you might get mentioned by name. For 10 points each:

[10] Although not mentioned in the national anthem of his native Venezuela, which statesman, who led the fight against Spanish rule in Latin America, is mentioned in the anthem of Colombia?

ANSWER: Simon **Bolivar**

[10] The opening lines of the Italian national anthem state that "Italy has woken" and bound upon her head the helmet of which general and consul, who led the Romans to victory at the Battle of Zama?

ANSWER: **Scipio** Africanus

[10] Between 1953 and 1977, the national anthem of the USSR was performed without lyrics, as the original version referenced which dictator, who died in 1953?

ANSWER: Josef **Stalin** <JB>

12. The soundtrack for this film, which does not feature the Bee Gees, is one of the best selling albums of all time. For 10 points each:

[10] This film's best known song was written by Dolly Parton, but was recorded to more success by the artist who stars in this film.

ANSWER: *The* **Bodyguard**

[10] *The Bodyguard* stars Kevin Costner and this artist, better known as a singer who recorded hits such as *I Want To Dance With Somebody* and *I Will Always Love You*.

ANSWER: Whitney **Houston**

[10] Houston also sings this song on the soundtrack of *The Bodyguard*. This song was originally recorded by Chaka Khan.

ANSWER: "**I'm Every Woman**"

13. Following the suspension of the Russian Olympic Committee due to its doping violations, the Olympics held in this country instead had a team of 'Olympic Athletes from Russia'. For 10 points each:

[10] Name this country, host of the 2018 Winter Olympics. Kim Yo-jong's attendance at the opening ceremony was controversial.

ANSWER: **South Korea** [prompt on "Korea", do not accept "North Korea"]

[10] At the 2018 Olympics, a team was formed from both North and South Korean players to compete in this sport. The combined team came last, losing all of its matches.

ANSWER: **ice hockey**

[10] This president of South Korea has pursued warmer relations with North Korea since their election in 2017. He had previously been Chief Presidential Secretary to Roh Moo-hyun.

ANSWER: **Moon** Jae-in <AP>

14. Let's turn our attention to the glitz and glamour of the Strictly ballroom, for 10 points each:

[10] The biggest *Strictly Come Dancing* scandal this year has undoubtedly been the fall from grace of this comedian, who was pictured kissing his married dance partner Katya Jones.

ANSWER: Seann **Walsh**

[10] This *Red Dwarf* actor has been the subject of further commotion over claims that he bullied his dance partner Amy Dowden in the practice room.

ANSWER: Danny **John-Jules**

[10] However, an appearance from guest judge Alfonso Ribeiro caused a tweet-storm for much more positive reasons. Ribeiro played Carlton Banks on this '90s Will Smith sitcom.

ANSWER: *The **Fresh Prince** of Bel-Air* <EJW>

15. The rotation, in 3 dimensions, of bodies with this property can be described using the three Euler angles. For 10 points each:

[10] Give the name for this type of ideal object, made up of particles which are always the same distance apart.

ANSWER: **rigid** body

[10] For rigid bodies, the value of this tendency to resist angular acceleration can be calculated for an axis which does not pass through the centre of mass using the parallel axis theorem.

ANSWER: **moment of inertia**

[10] The net torque acting on a rigid body is equal to the product of the moment of inertia and its angular acceleration. This is the rotational analogue of what statement, commonly phrased as "force equals mass time acceleration"?

ANSWER: **Newton's second** law of motion [or "**second law** of **motion**"; prompt on "**second law**"]<YY>

16. Zeus caused a gadfly to sting Pegasus when Bellerophon was trying to fly up this mountain. For 10 points each:

[10] Name this mountain, the home of the Greek gods.

ANSWER: Mount **Olympus**

[10] According to Hesiod, Olympus was so high it would take this long for an anvil to fall from it to Earth. In the *Hávamál*, Odin hangs himself on a 'windy tree' that might be Yggdrasil, for this long, to gain knowledge of runes.

ANSWER: **nine days**

[10] If the anvil were to fall for another nine days below Olympus it would reach this location, where Ixion is strapped to a flaming wheel and Sisyphus pushes a boulder up a hill forever.

ANSWER: **Tartarus** [prompt on “Hades” or the “Underworld” because it's a specific bit of the Underworld] <RF>

17. After musing about the son of the title ‘high-collared public schoolboy’, the narrator of *Dockery and Son* falls asleep on one of these vehicles, before eating ‘an awful pie’ in Sheffield. For 10 points each:

[10] Name these vehicles. The plot of the poem *Whitsun Weddings* takes place on one of these vehicles heading from Hull to London, on which the poet views several wedding parties at the stations they pass.

ANSWER: **trains**

[10] *Dockery and Son* and *Whitsun Weddings* are poems by this British author, who described how ‘man hands on misery to man’ in *This be the Verse*.

ANSWER: Philip **Larkin**

[10] *Dockery and Son* opens at this institution, where Larkin recalls ‘giving his version of that incident last night’. His experiences here informed his early semi-autobiographical novel *Jill*.

ANSWER: University of **Oxford** [accept St **John’s** College] <JK>

18. An illustration of this ethical principle is making a moral distinction between a person sacrificing themselves to save others and committing suicide. For 10 points each:

[10] Name this ethical proposition, which argues that harm can be caused in bringing about a good end even though it would not be permissible to cause that harm as a means to bring about that same end.

ANSWER: doctrine of **double effect**

[10] The doctrine of double effect was introduced in the *Summa Theologiae* of this philosopher, who also devised Five Ways to demonstrate that the existence of a god could be rationally investigated.

ANSWER: Thomas **Aquinas**

[10] Philippa Foot examined the doctrine of double effect in a 1967 essay on abortion. In that essay, she introduced this thought experiment, which involves choosing between inaction and redirecting the trolley to reduce the number of deaths it causes.

ANSWER: the **trolley** problem <AP>

19. This ruler secretly allied France with Piedmont-Sardinia in the Second Italian War of Independence in exchange for the county of Savoy and the city of Nice. For 10 points each:

[10] Name this French ruler and victor of the Battle of Solferino, whose use of his uncle’s name was decisive in his election as president of the Second Republic, which he would himself overthrow.

ANSWER: Charles-Louis **Napoléon** Bonaparte **III** [prompt on “Napoleon” or “Bonaparte”; do not accept “Napoleon Bonaparte” or “Napoleon I”]

[10] This person had arrived in Solferino to speak to Napoleon about their business interests in Algeria. On witnessing the battle, they advocated for a neutral organisation, which became the Red Cross; in 1901, this person was awarded the first Nobel Peace Prize.

ANSWER: Henry **Dunant**

[10] In 1864, the Red Cross instigated this international treaty, the first of four, which established that ‘wounded or sick combatants, to whatever nation they may belong, shall be collected and cared for.’

ANSWER: First **Geneva Convention** <AP>

20. This person’s only published book titled *Reflections on the Motive Power of Fire* is considered by some as the founding work of thermodynamics. For 10 points each:

[10] Name this physicist who gives his name to the cycle which puts an upper limit on the efficiency of any thermodynamic engine.

ANSWER: Nicolas Leonard Sadi **Carnot**

[10] Symbolically described as a process in which Q equals zero, this type of reversible process occurs without transfer of heat between a system and its surroundings.

ANSWER: **adiabatic** [accept **adiathermal** although that doesn’t have to be reversible]

[10] Defined as the heat required to raise the temperature of one gram of water by one degree Celsius at one atmosphere, this unit of energy is equal to approximately 4.2 joules.

ANSWER: (small) **calorie** [anti-prompt on kilocalorie] <RB>