

PRISON BOWL XII: DANIEL TOLD US NOT TO HAVE A SUBTITLE

Head Edited by Daniel Ma, Vice Head Edited by Rachel Yang. Section Edited by Daniel Ma, Asher Jaffe, Ben Chapman, and Rachel Yang. Written by Hunter College High School Quiz Bowl (Daniel Ma, Brian Lu, Asher Jaffe, Ben Chapman, Rachel Yang, Cerulean Ozarow, Ella Leeds, Pedro Juan Orduz, Aruna Das, Eric Cao, Daniel Shneider, Amanda Li, Andrew Zeng, Alex Mazansky, Philip Belin, Maxwell Huang, Jacob Hardin-Bernhardt, Bianca Dwork, Moxie Strom, Brian Chan, Maya Vazquez-Plyshevsky, and Maggie Kwan). Special thanks to Ms. Caitlin Samuel, Jamie Faeder, Gilad Avrahami, Chloe Levine, Max Shatan, Lev Bernstein, Doug Simons, and Michael Wu.

PACKET TWO

TOSSUPS

1.

Instruments with holes shaped like “c”s have names beginning with this word. It’s not “guitar,” but instruments with names beginning with this word are tuned with a third in the middle and otherwise in fourths. The words “da braccio” distinguish one instrument family of this name, the other being “da (*) gamba.” The third highest instrument in a flute quartet has this name. An instrument of this name has strings pitched A, D, G, and C and generally reads music written in alto clef. For 10 points, what word names the string instrument ranging higher than a cello and lower than a violin?

ANSWER: viola [accept viol before “flute”] <DM>

2.

Whitehead’s theory is an alternative to this theory, published seven years earlier. The Ricci tensor is on one side of an equation governing this theory; 8π times big G over the speed of light raised to the fourth power is on its other side. This theory was confirmed by Arthur Eddington’s observation of a (*) solar eclipse, and it explains the precession of Mercury’s perihelion. Gravitational lensing is a consequence of this theory, in which the curvature of spacetime explains gravity. For 10 points, name this 1915 theory by Albert Einstein that is often contrasted with a “special” one.

ANSWER: general relativity [prompt on relativity; do not accept or prompt “special relativity”] <BC>

3.

One character in this work had served as a curtain-lifter in heaven, but was beaten 800 times with a rod and banished, possibly for breaking a vase. At the end of this work, a character is given the status of altar cleaner and can thus eat excess offerings. One character in this novel has a magical (*) staff that can grow and shrink freely. The characters Zhu Bajie (“JOO BAH-jyeh”), or Piggy, and Sun Wukong accompany the protagonist on the title trip. For 10 points, name this classical Chinese novel, titled after a trip taken by the monk Xuanzang to India.

ANSWER: Journey to the West [accept Xi You Ji (“xee yo zhee”)] <RY>

4.

This politician wrote the Rockingham Memorial to the president, leading to his election to Congress. This man won the electoral votes of Massachusetts, the only state where he was on the ballot, in the 1836 election. This man became the only person not to resign from John Tyler’s Cabinet, where as Secretary of (*) State he signed a treaty settling Maine’s northern border. This man had a notable debate with Robert Hayne in which he argued for “Liberty and Union, now and forever, one and inseparable.” For 10 points, name this politician who names a treaty with Lord Ashburton, a Senator from Massachusetts.

ANSWER: Daniel Webster [prompt on Webster; do not accept “Noah Webster”] <CO>

5.

In one video posted by this artist, they claim that Franklin Delano Roosevelt really made “America Great Again,” and this artist has also been praised by Senator Bernie Sanders for bringing more attention to Social Security. This artist has been recently featured on several Bruno Mars songs such as (*) “Please Me” and “Finesse.” This musician received a Grammy for her album, *Invasion of Privacy*. In one song, this rapper alludes to her red-bottom Louboutin heels and how she is making “money moves.” For 10 points, name this rapper of the 2017 hit “Bodak Yellow.”

ANSWER: **Cardi B** [accept Belcalis Marlenis **Almánzar**] <EL>

6.

In this art form, eagles are distinguished from ravens by curved beaks. The six basic types of this art form include mortuary, welcome, and shame. Some examples of this art form are made surrounding the door of a family house. A famous example of this art form depicts a two-headed eagle perched atop a (*) red wolf’s head. In this art form, blue or green patches around a bird’s eyes identify it as a Thunderbird. Edward Malin theorized that this art form originated in the Haida tribe. For 10 points, name this vertical art form typically carved from Pacific redwood, made by Northwest Indians.

ANSWER: **totem poles** [accept **Gvaa’aang**, prompt on partial] <AJ>

7.

Pierre Bourdieu (“bor-DYU”) first developed the idea of the “symbolic” type of this thing. Marx claimed that this concept forms the middle step of the economic cycle between M and M-prime and divided it into constant, variable, and fictitious types. Max Weber (“VEY-ber”) thought that this thing originated with double-entry bookkeeping. Gary Becker described the (*) “human” type of this thing, which Adam Smith originally claimed was “That part of men's stock which he expects to afford him revenue.” Contrasted with land and labor, for 10 points, name this concept that names Karl Marx’s most monumental work.

ANSWER: **capital** [do not accept or prompt on “capitalism”] <AJ>

8.

One of this author’s works begins with a soldier asking to “leave [him] here a little, while as yet ‘t is early morn” at the title location. In another work by this author, when the title character looks at Sir Lancelot, her mirror cracks and she is cursed. This author of “Locksley Hall” and “The (*) Lady of Shalott” wrote in one poem that “‘tis better to have loved and lost than never to have loved at all.” Asking, “When can their glory fade?” of “the six hundred” that rode “Into the valley of Death,” for 10 points, name this poet of “In Memoriam A. H. H.” and “The Charge of the Light Brigade.”

ANSWER: Alfred, Lord **Tennyson** <RY>

9.

This scientist made the farthest radio transmission prior to Guglielmo Marconi’s and increased earth’s estimated age by considering radioactive heat. With Frederick Soddy, this scientist defined the half-life and discovered radon. James Chadwick discovered the neutron in the lab of this discoverer of the (*) proton. This New Zealand scientist developed the theory of radioactive decay and discovered alpha and beta radiation. Geiger and Marsden developed and ran this man’s famous gold-foil experiment. For 10 points, name this discoverer of the atomic nucleus.

ANSWER: Ernest **Rutherford** <DM>

10.

This person killed Ptolemy of Mauretania and annexed his territory. This person ordered the creation of a bridge between him and the Temple of Jupiter so he could talk with the deity. This ruler's father was supposedly smothered with a pillow to hasten his accession. This ruler once launched a fake invasion of Britain, commanding his soldiers to pick up (*) seashells on the coast of France. This man was assassinated in 41 A.D. by a member of the Praetorian Guard. For 10 points, name this 3rd Roman emperor, who had the nickname of "little boot" and attempted to place his horse in consulship.

ANSWER: Caligula [accept Gaius Julius Caesar Augustus Germanicus; accept Gaius alone; do not accept or prompt on any other partial answers without all three of those names] <EC>

11.

Ancylus Lake is a predecessor of this body of water, and the Sambia Peninsula is located in this body of water. Oulu and Vaasa are located on this body of water. The Great and Little Belts drain this body of water into the Kattegat, and Lake Peipus flows into it. Islands in this sea include (*) Åland ("OH-land") and Gotland, and Kaliningrad Oblast borders this sea. The Gulfs of Bothnia, Finland, and Riga are parts of this sea, and cities on its shore include St. Petersburg and Stockholm. For 10 points, name this sea whose namesake states include Latvia, Estonia, and Lithuania.

ANSWER: Baltic Sea <BC>

12.

The original plan for this structure would see it topped by a lantern and eight radiating buttresses, and it was constructed without scaffolding thanks to the use of a herringbone pattern in its bricks. This structure's highest feature consists of two shells held together by four wood and metal hoops and is shaped (*) octagonally. Lorenzo Ghiberti lost the competition to design this building, although he did decorate its Baptistery's gates. For 10 points, name this cathedral with the world's largest brick dome, which was designed by Filippo Brunelleschi ("broo-ne-LES-kee").

ANSWER: Florence Cathedral [prompt on Il Duomo; accept Il Duomo di Firenze; accept Cattedrale di Santa Maria del Fiore; prompt on partial answers] <BL>

13.

It isn't Italian, but the Bardi, Peruzzi, and Acciaiuoli ("a-cha-YUO-li") banks collapsed partly due to the campaign that ended in this battle. The Earl of Northampton commanded the rear division in this battle, the first time one side's commander captured the Oriflamme. This battle was the first major European one where cannons were used. John of (*) Bohemia died at this battle, where a rainstorm rendered Genoese crossbows ineffective. For 10 points, name this 1346 battle won by Edward III, showing longbowmen's superiority over mounted knights, the first major land battle of the Hundred Years' War.

ANSWER: Battle of Crécy [accept Cressy] <DM>

14.

This person's supporters are known as "Youthis" and in response to his resignation from Parliament on October 2007, this person was placed under house arrest one month later. This person's first start in politics originated from their philanthropy involving cancer hospitals. This person later founded the (*) PTI party, which defeated the ruling PML-N in a 2018 election. This man promised to "Teach [India] a lesson" after Narendra Modi suspended Kashmiri autonomy in August of 2019. For 10 points, name this former cricket star and current Prime Minister of Pakistan.

ANSWER: Imran Khan <AD/BL/BC/PO>

15.

In one work by this author, magistrates are unsettled because the statue of “Una looks unlike her sisters,” and in another, the skeleton of Alexandro Aranda is strung up on the figurehead of a boat. In another short story by this author of “The Bell Tower,” an unnamed Manhattan lawyer has three employees nicknamed (*) Nippers, Turkey, and Ginger Nut. Those stories were part of this author’s *The Piazza* (“PYA-tsa”) *Tales*. The main character in one of his novels is forced to share a bed with the tattooed Polynesian Queequeg at a crowded inn. For 10 points, name this American author of “Bartleby the Scrivener” and *Moby Dick*.

ANSWER: Herman Melville [Alexandro Aranda is in “Benito Cerano”] <AD>

16.

The toxin involved in this disease binds to GM1 gangliosides and the B subunit of the bacterium which causes this disease is a common neuronal tracer. The deadly aspects of this disease may have entered its pathogen’s genome through the virus CTX phi (“fai”), and its modern variety is known as (*) El Tor. A recent epidemic of this disease was likely spread by Nepalese UN Peacekeepers, and the severest current one is in Yemen. For 10 points, name this disease of Bengali origin spread from contaminated water and food that causes severe diarrhea and dehydration.

ANSWER: cholera (“CALL-er-ah”) <DM>

17.

After Menthe attempted to seduce this deity, his consort turned Menthe into a mint plant, and this deity was shot in the shoulder by a demigod during a battle at Pylos. This god used snakes to hold Pirithous captive on “The (*) Chair of Forgetfulness” for trying to kidnap and marry his wife. Hecate’s torches were used in the search for this god’s wife, and this god would only allow Heracles to take his watchdog if he did not use weapons. This god is able to spend half the year with his wife whom he abducted; that goddess is Persephone. For 10 points, name this Greek god of the underworld.

Answer: Hades [accept Pluto before “Greek”] <RY>

18.

One ethnic group in this country revolted in Shakushain’s revolt. Shell heaps in this country belong to an agricultural era that follows an era named by Edward S. Morse; that later era was the Yayoi. Women in this country often wrote with the (*) kana script, and one diary from this country discovered on a namesake object was *The Pillow Book*. This country’s adoption of Buddhism from the Tang Dynasty occurred in the Asuka period. For 10 points, prehistoric people crossed former land bridges into what island country across a namesake sea from Korea?

ANSWER: Japan [accept Nippon or Nihon] <DM>

19.

A man transports the protagonist of this work to a hotel but refuses to tell him the cost, instead only ominously saying “you will pay.” In this work, the main character has a dream about “the stranger god” after he becomes obsessed with a fellow hotel guest. In the beginning of this novella, the main character’s sighting of a (*) red-haired stranger prompts him to take a holiday. The main character dies of cholera contracted from eating over-ripe strawberries. For 10 points, name this novella in which Aschenbach lusts after the Polish boy Tadzio before dying in the title city, written by Thomas Mann.

ANSWER: Death in Venice [accept Der Tod in Venedig] <AD>

20.

This number is multiplied by i in the denominator of Cauchy's integral, and its square root is multiplied by the standard deviation in the denominator of the Gaussian distribution's probability density function.

Michael Hartl published a manifesto advocating a holiday celebrating this quantity taking place on June (*) 28th. h bar is h over this number. This is the smallest positive number x such that e to the $i x$ equals 1. This quantity is the natural period of the graph of sine because there are this many radians in a full circle. For 10 points, name this number that when multiplied by a circle's radius yields its circumference.

ANSWER: tau [accept two times pi] <AJ>

TB.

One of this man's poems describes a sad heart lying "under the moongrey nettles" as rain falls on the title location; that poem is "She Weeps Over Rahoon." In one of this author's works, a kitchen is exhaustively inventoried in a chapter that ends with a massive (*) period. One of this man's characters declares "History is a nightmare from which I am trying to awake" after eating breakfast with Buck Mulligan. That character, for 10 points, is Stephen Dedalus, who appears in what man's *A Portrait of the Artist of a Young Man* and *Ulysses*?

ANSWER: James Augustine Aloysius Joyce <AJ>

BONUSES

1.

One character in this play tells her husband, “You and papa have committed a great sin against me. It is your fault that I have made nothing of my life.” For 10 points each,

[10] Name this play that ends with Nora angrily slamming the door on her husband Torvald.

ANSWER: A Doll’s House [accept A Doll House]

[10] *A Doll’s House* was written by this Norwegian playwright of *Hedda Gabler* and *Ghosts*.

ANSWER: Henrik Johan Ibsen

[10] The title character of *Hedda Gabler* commits suicide after Judge Brack blackmails her with his knowledge of her role in the death of this character, who had been a competitor of Hedda’s husband at work.

ANSWER: Eilert Løvborg [accept either underlined part] <RY>

2.

Achtung-Panzer! For ten points each:

[10] Name this German field marshal who wrote a book of that name, a pioneer of mobile warfare. He overwhelmed French defenses at Sedan but was defeated at the Battle of Moscow.

ANSWER: Heinz Guderian

[10] It’s not the Tiger, but towards the end of the war, Guderian’s troops might have used this model of medium tank, which succeeded the Panzer IV.

ANSWER: Panther [prompt on Panzerkampfwagen V Panther; accept Sonderkraftfahrzeug 171]

[10] This word, although never a formal doctrine, has been used by historians to refer to the “lightning” speed of mechanized German warfare early on in the war.

ANSWER: Blitzkrieg [prompt on Lightning War] <BL>

3.

This object covers the last hair on Otter’s chin. For 10 points each:

[10] Name this item which is eventually returned to the maidens who originally owned it, which was obtained by one hero by digging pits under a dragon, allowing him to escape its blood while it filled the pits.

ANSWER: the ring of the Nibelungen [accept Andvaranaut or Der Ring Des Nibelungen]

[10] This son of Sigmund gets the ring from Fafnir the dragon and gives it to his wife after riding through a wall of fire to reach her; he later is tricked by Gunnar’s mother into helping Gunnar marry his wife.

ANSWER: Sigurd [accept Siegfried]

[10] Sigurd’s wife is Brunhild, one of these women who choose warriors to be killed and brought to Valhalla.

ANSWER: Valkyrie <DM>

4.

Some art just isn’t made to last. For 10 points each:

[10] A painting by this artist was destroyed by a shredder hidden in its picture frame in October 2018, possibly increasing its value. This artist is known for paintings such as *Balloon Girl* and *Bomb Hugger*.

ANSWER: Banksy

[10] This Leonardo da Vinci painting was created using a mix of oil- and water-based paints and has thus been slowly falling apart. At the center of this painting, Jesus gestures at the bread eaten at this painting’s title meal.

ANSWER: The Last Supper [accept Il Cenacolo or L’Ultima Cena]

[10] In 1970, Robert Smithson created the sculpture *Spiral Jetty* in this body of water, which eventually rose and covered it.

ANSWER: The Great Salt Lake <AJ>

5.

For 10 points each, answer some questions about animals turning into people.

[10] At the end of this novel, pigs seem to resemble people as they smoke and play cards while standing on two legs. Earlier in this novel, Boxer the horse dies while working on a windmill.

ANSWER: **Animal Farm**: *A Fairy Story*

[10] Animals are surgically altered to resemble people on this man's laboratory island in an H.G. Wells novel. This man is eventually killed by a half-finished puma creature.

ANSWER: Dr. **Moreau** [accept *The Island of Doctor Moreau*]

[10] An ape presents himself to a group of academics and later opts to join a musical conservatory in this author's *A Report to an Academy*. The last short story by this man features "Josephine the Singer" of the mouse folk.

ANSWER: Franz **Kafka** <AJ>

6.

Let's travel south from Naples. For 10 points each:

[10] South of Naples is this sea west of mainland Italy and east of Sardinia.

ANSWER: **Tyrrhenian** Sea

[10] South of the Tyrrhenian Sea, you might hit this island which is separated from the rest of Italy by the Strait of Messina. Cities on this island include Palermo and Trapani.

ANSWER: **Sicily** [accept **Sicilia**]

[10] The Tyrrhenian Sea is part of this larger Sea, whose main part is south of Sicily. This sea is connected to the Atlantic by the Strait of Gibraltar.

ANSWER: **Mediterranean** Sea <DM>

7.

In general, moving 100km upwards is the same as moving 80km polewards regarding temperature. For 10 points each:

[10] Name this frigid biome that can occur in alpine or arctic types.

ANSWER: alpine/arctic **tundra**

[10] These organisms are critical in tundra biomes in general, including alpine tundra. They consist of a mutualistic relationship between an alga and fungus and can break down rock.

ANSWER: **lichen**

[10] This term refers to the stunted trees growing at the tree line just below the start of the alpine tundra, which occurs due to freezing, harsh winds. One type of this vegetation is the flag tree.

ANSWER: **krummholz** [accept **knieholz** or **tuckamore**] <DM>

8.

This empire was a branch of the Yuezhi confederation. For 10 points each:

[10] Name this multiethnic empire which ruled Bactria at around the same time as the Roman Empire. Its emperors included the Buddhist patron Kanishka the Great.

ANSWER: **Kushan** Empire

[10] One capital of the Kushan Empire was the city now known as Peshawar, which is located by this historic mountain pass between Pakistan and Afghanistan.

ANSWER: **Khyber** Pass

[10] The Kushan Empire first used this ethnic group's language, who earlier ruled a namesake nearby kingdom.

Megasthenes was an ambassador of this ethnic group, and Alexander the Great began this ethnic group's conquests of Asia.

ANSWER: **Greek** [prompt on **Macedonian** or **Hellenistic**; accept **Hellenic**] <CO>

9.

Virtue is the only good. For 10 points each:

[10] This school of philosophy teaches that the only path to happiness is by not caring about things we cannot control and concentrating only on those one can control—the external world and one’s internal self, respectively.

ANSWER: **Stoicism**

[10] In *Meditations*, this Stoic Roman Emperor urged the creation of a “cosmic perspective” and argued that one should use rationality to live in harmony with the universal order, or *logos*.

ANSWER: Marcus **Aurelius** Antoninus Augustus

[10] Stoicism was opposed by this ancient school of philosophy which holds that pleasure should be the ultimate goal of life. This philosophy differentiates between kinetic and katastematic pleasures.

ANSWER: **Epicureanism** <AJ>

10.

The Kola Institute attempted to reach this boundary before quitting in 1989. For 10 points each:

[10] Name this boundary that separates the crust from the layer directly below it. It is named for a Croatian seismologist.

ANSWER: **Mohorovičić** (“mo-ho-ro-VEE-cheech”) discontinuity

[10] The Moho discontinuity separates the crust from this layer below it. This layer is the largest layer of the earth.

ANSWER: **mantle**

[10] The Moho discontinuity lies in this region of the mantle above the asthenosphere.

ANSWER: **lithosphere** <BC>

11.

The NFL draft is just around the corner! For 10 points each, name some big-time busts.

[10] One big-time bust was Ryan Leaf, who was taken by the Chargers in the 1998 draft instead of this former quarterback. He played for the Colts and Broncos, and has a brother who currently is quarterback for the Giants.

ANSWER: Peyton **Manning** [prompt on **Manning**, do not accept “Eli Manning”]

[10] This former Montreal Alouettes quarterback nicknamed “Johnny Football” was drafted by the Browns in the 2014 draft. He threw four interceptions in one half on his CFL debut, and was later released in February 2018.

ANSWER: Johnny **Manziel**

[10] Another big-time bust is this former Oakland Raiders quarterback that was taken 1st in the 2007 draft ahead of Calvin Johnson. He holds the record of the lowest single season passer rating since 1998.

ANSWER: **JaMarcus Russell** [accept either underlined portion] <BC>

12.

A history teacher is referred to as this type of person. For 10 points each:

[10] In one work the protagonist is repulsed by people of this type. He claims that these kinds of people live in California and work in the film industry.

ANSWER: **phonies**

[10] Phonies are the bane of Holden Caulfield, the protagonist of this novel by J.D Salinger which has become synonymous with teenage angst and rebellion.

ANSWER: **The Catcher in the Rye**

[10] J.D. Salinger often wrote about a fictional family with this last name. Muriel and Seymour, a couple who share this last name, are the focus of the short story *A Perfect Day for Bananafish*.

ANSWER: **Glass** <EL>

13.

Vera Rubin's study of the rotation rates of galaxies provided early evidence for this entity. For 10 points each:

[10] MACHOs explain the presence of this entity, which is theorized to make up 23% of the universe and 95% of the universe's mass. It is not dark energy.

ANSWER: **dark matter**

[10] One particle thought to make up dark matter is the WIMP, which only interacts with gravity and this force. W and Z bosons propagate this force.

ANSWER: **weak** nuclear force

[10] The dark matter described by this adjective moves slowly compared to the speed of light.

ANSWER: **cold** dark matter <BC>

14.

This man was almost struck down by God when he refused to circumcise his son. For 10 points each:

[10] Name this stuttering man whose brother appeared to Pharaoh and turned his staff into a snake.

ANSWER: **Moses** [accept **Moshe**]

[10] Moses ordered the Levites to slaughter the Israelites after his brother Aaron built and worshipped this object, which violated the third commandment.

ANSWER: **Golden Calf**

[10] After that, God forced the Israelites to wander in the desert for this period of time, during which he fed them with manna.

ANSWER: **40 years** <AJ>

15.

Name some things about the first Persian invasion of Greece, for 10 points each:

[10] This 490 B.C. battle from the Persian invasion of Greece saw a decisive victory for the Greeks on a namesake plain by the sea.

ANSWER: Battle of **Marathon**

[10] This Greek tyrant was the father of Hippias, one of the generals who partially led the Persian army at Marathon.

ANSWER: **Peisistratos** [accept **Pisistratus**]

[10] Peisistratos was the ruler of this ancient Greek city, and the Battle of Marathon was between Persia and the citizens of this city.

ANSWER: **Athens** <EC>

16.

Bernard Weiner described this concept using his attributional theory. For 10 points:

[10] Martin Seligman demonstrated this psychological condition by training animals to stop attempting to save themselves from electrical shocks. Human unemployment has also been modeled by this concept.

ANSWER: **learned helplessness**

[10] Seligman performed his learned helplessness experiments on these animals. Pavlov demonstrated classical conditioning on these animals.

ANSWER: **dogs** [accept **Canis lupus familiaris**, prompt on **Canis lupus**]

[10] Learned helplessness has been linked to the basolateral section of this part of the brain, which mainly deals with emotions such as fear and aggression.

ANSWER: **amygdala** <AJ>

17.

This man was the author of the *Tristia* while he was exiled in what is now Romania. For 10 points each:

[10] Name this author of those works, considered one of the finest poets of the Golden Age of Roman literature. He was exiled to Tomis for an unknown reason by emperor Augustus.

ANSWER: Publius **Ovidius** Naso

[10] Ovid is best remembered for this collection of mythological stories, including Apollo and Daphne and the Rape of Proserpina; the idea of transformation is a theme throughout.

ANSWER: The ***Metamorphoses*** [accept ***Metamorphōseōn librī***]

[10] While in exile, Ovid wrote the *Tristia* and this other collection of poems; both collections are addressed to various people and plead for him to be allowed back into Rome.

ANSWER: The ***Letters from the Black Sea*** [accept ***Epistulae ex Ponto***] <PO>

18.

An example of one of these things is H_2 becoming $2H^+ + 2e^-$. For 10 points each:

[10] Name these reactions that make up a larger chemical reaction in which electrons are transferred between atoms.

ANSWER: **half** reaction

[10] Half reactions are halves of these reactions that involve movement of electrons and changes in oxidation states..

ANSWER: **redox** reactions [prompt on **reduction-oxidation** reactions]

[10] This redox process is used industrially to create metal sodium from table salt. It involves attracting sodium ions in molten salt to an iron cathode and letting them float to the surface of the molten salt.

ANSWER: **Downs** cell [accept other words in place of “cell”] <DM>

19.

For 10 points each, name the following things in classical music related to the number 49.

[10] This composer’s Opus 49 includes his *1812 Overture*, which prominently displays cannon fire in a musical recalling of Russia’s defeat of Napoleon.

ANSWER: Pyotr Ilyich **Tchaikovsky**

[10] Bach’s BWV 1049 is this G Major work, which contains a virtuosic violin part in its outer movements and whose final movement begins with a fugato starting from the violas, prominently featuring a syncopated G in its theme.

ANSWER: **Brandenburg** Concerto No. **4** [accept equivalents; prompt on partial answer]

[10] Beethoven’s Opus 49 contains two short and technically simple works, each with only two movements, of this form. Hans von Bülow was the first to play all 32 of Beethoven’s works of this form in a single concert cycle.

ANSWER: **piano sonata** [prompt on **sonata**] <DM>

20.

Prior to the giving of his speech accepting the Republican nomination, this man’s supporters booed off Nelson Rockefeller, who associated them with KKK members and Communists. For 10 points each:

[10] Name this ultra-conservative 1964 Republican nominee for president, who lost in a landslide to Lyndon B. Johnson. His campaign nevertheless set up the start of the modern Republican control of the South.

ANSWER: Barry **Goldwater**

[10] Goldwater’s acceptance speech was quite controversial, most notably for him saying that “[this concept] in defense of liberty is no vice.”

ANSWER: **extremism** [do not accept anything except the exact answer]

[10] While many Republicans held back from supporting Goldwater, Ronald Reagan gave this speech in support of him a week before the election. Known often just as “The Speech,” it propelled Reagan into national prominence.

ANSWER: **“A Time for Choosing”** <DM>

TB.

For 10 points each, answer some questions about different types of fruit in mythology.

[10] This fruit was believed to have sprung from the blood of Adonis. Also known as “the fruit of the dead,” Persephone had to stay in the Underworld for six months every year because she ate part of this fruit.

ANSWER: **pomegranate**

[10] These fruits had the power to grant eternal life and were grown in the garden of the Queen Mother of the West. Every six thousand years, gods would host a feast dedicated to this fruit.

ANSWER: **peaches of immortality** [prompt on **peach**]

[10] These fruits, grown in the garden of the Hesperides (“hess-PER-i-dees”), were used by Meleager (“mell-ee-AY-ger”) as a distraction to win a race against the Greek hero Atalanta.

ANSWER: **golden apples** [prompt on **apples**] <DS>