

Blue Devil Academic Tournament II

Written and edited by the Norcross Academic Team (Mostafa Bhuiyan, Hernan Morales, Joey Reifenberger, Michael Sokolow), Tanay Kothari, Adam Silverman, and Brady Weiler

Round 6- Tossups

1. In one sculpture by this artist, a man stands over a rock with the inscription “I am beautiful as a dream of stone, but not maternal.” Another of this artist’s works depicts the title character wearing a bonnet and is a bust of his lover Camille Claudel. In another sculpture by this man, the key-holding Jean d’Aire and a bearded man named Eustache de Saint-Pierre are two of (*) six men going to their hangings. This artist also depicted the lovers Paolo and Francesca embracing as part of a larger work. For ten points, name this French sculptor of *The Burghers of Calais* and *The Kiss*, who in his *Gates of Hell* included a Dante-inspired *The Thinker*.

ANSWER: Auguste Rodin

2. This play introduced its author’s conception of the Demon of Experiment. One character in this work who speaks only Pidgin English is lured on stage by the presence of coats and hats. That woman owns the brothel at which a pale blue envelope was left for one of the play’s central figures, and is named (*) Madame Pace. In its final act, the Boy shoots himself and the Child drowns in a fountain, and the Manager realizes that he has wasted an entire day without practicing the play *Mixing It Up*. For ten points, name this play about the Father and the Step-Daughter, along with four other title figures, written by Luigi Pirandello.

ANSWER: *Six Characters in Search of an Author* (or *Sei personaggi in cerca d'autore*)

3. In one episode, this character throws a Starmie like a shuriken in the hope that it will shoot out water. This character is given a prize by a fake Princess Salvia after an event for which this figure dresses up in giant glasses and pigtails in Arrowroot Town. She is known for her deep rivalry with (*) Butch’s partner, Cassidy. At one point, this character owned an Arbok, but, later in the series, she uses her Seviper to compete in the contests under a fake name. For ten points, name this female character from Pokémon who travels with Meowth and her Team-Rocket compatriot, James.

ANSWER: Jessie (accept Musashi)

4. One family that ruled this country dealt with peasant rebellions led by the Tay Son brothers and included a seven-year old leader that signed an agreement with Pigneau de Behaine. Another leader of this country defeated Omar Khan at the Battle of Bach Dang, one of three invasions against the ruling (*) Tran Dynasty. People of this country were crushed by the general Ma Yuan after the rise of the Trung Sisters and engaged in trade at the city of Hue during the Nguyen dynasty. For ten points, name this Southeast Asian nation where many dynasties ruled from Hanoi.

ANSWER: Vietnam

5. The prefixes exo- and basi- distinguish a characteristic of these organisms called the pinacoderm. Specialized spicules called megascleres provide support for these organisms. Wandering cells named amoebocytes are located in the gel-like substance that takes up most of these organisms’ (*) mesohyl. These organisms possess collar cells called choanocytes and are composed of two distinct layers of cells. Water flows from these organisms via a large opening called the osculum. For ten points, name these sessile, simple organisms which are members of the phylum Porifera.

ANSWER: sponges (accept “Porifera” until the end)

6. After destroying the wings of Ninlil, Adapa rejects food which would have given him this power. An object granting this power grew at the bottom of the seafloor but was eaten by a snake in a different story. After his mother is tricked, Vishnu's eagle-mount Garuda is tasked with receiving an item granting this power. One place with items granting this ability is guarded by a (*) dragon named Ladon and includes the golden apples of the Hesperides. In another story, Gilgamesh fails in his quest to achieve this power. For ten points, name this power of the cicada Tithonus and the Greek gods, defined as the ability to live forever.

ANSWER: immortality (or immortal; accept "living forever" or similar until the end; do NOT accept "eternal youth")

7. Two molar equivalents of Grignard reagent are required to reduce compounds with this functional group. The Claisen condensation creates one of these compounds with a beta-carbonyl group, while they are hydrolyzed into soaps through saponification. They can be produced by adding an acid to the parent alcohol in a reaction named for (*) Fischer. In DNA, phosphorus simultaneously forms two of these functional groups in a namesake type of bond. These compounds have a carbonyl group single bonded to an oxygen atom, and often smell fruity. For ten points, name this functional group, the "poly" form of which is a common fabric.

ANSWER: esters

8. Two characters in this play discuss strange events like an owl killing a falcon. A speech in this play includes one character's remark that "the raven himself is hoarse" and asks "spirits that tend on mortal thoughts" to "unsex" the speaker. One character in this play remarks that life "is a tale/Told by an idiot, full of (*) sound and fury." The protagonist is killed by a man not "of woman born" at Dunsinane Castle. One character in this work fails to wash away blood on her hands and has a husband who sees an apparition of a floating dagger. For ten points, name this play about a Thane of Cawdor who murders Banquo before he is killed by Macduff.

ANSWER: Macbeth

9. One occurrence leading to this event saw Director of Administration David Watkins be criticized for firing five employees in the Travelgate controversy. Three months prior to this event, Linda Tripp provided a prosecutor details for the (*) Starr Report. This event was also carried out because of Attorney General Janet Reno's investigation of the Whitewater Controversy. Before this event, the person in question said that he "did not have sexual relations with that woman, Miss Lewinsky." For ten points, name this December 1998 event in which the House of Representatives voted to remove the 42nd U.S. President from office.

ANSWER: impeachment of William Jefferson "Bill" Clinton

10. One ritual associated with this holiday requires the use of vermillion powder and a special pitcher. The first day of this holiday falls in the month of Kartik. One reason for the celebrations during this holiday is the defeat of Narakasura. Participants usually draw patterns called (*) rangoli during this five-day event, which marks a new business year. A Puja during this event celebrates the goddess Lakshmi, and most participants celebrate Rama's return with the use of diya, or oil lamps. For ten points, name this Hindu "festival of lights."

ANSWER: Diwali (or Dipawali)

HALFTIME. SCORECHECK. ASK IF THERE ARE ANY PLAYER SUBSTITUTIONS

11. This river passes through Pakse, the capital of the former Kingdom of Champasak. This river originates in the Three Rivers area in the Tibetan Plateau. One of this river's tributaries, the Tonlé Sap, changes its course twice a year due to flooding. During late October, the Naga fireballs phenomenon occurs on this river near (*) Nong Khai and Vientiane. This river branches off after leaving Phnom Penh and shortly before entering Vietnam where it forms its delta. For ten points, name this longest river of Southeast Asia.

ANSWER: Mekong River

12. The Winkler test makes use of this procedure, one variant of which is commonly preceded by standardization using potassium hydrogen phthalate. The result of that variant of this process is a sigmoidal curve with an inflection point. One common reagent for this technique contains four rings and is colorless in (*) acidic solutions. The solution's pKa equals its pH halfway to the equivalence point in this procedure, which commonly uses phenolphthalein or another indicator in its acid-base variant, as well as a burette. For ten points, name this quantitative method of measuring the concentration of an unknown substance.

ANSWER: titration (accept acid-base titration, because every clue other than the Winkler test specifically deals with acids and bases)

13. This leader enlisted the aid of the Ghassanids to quell a rebellion led by Julianus ben Sabar during a Samaritan Revolt. Two of this leader's generals began the Hippodrome massacre after dissenters, the Blues and the Greens, proclaimed Hypatius sole emperor. The historian (*) Procopius criticized his reign, which included the bloody Nika riot put down by his general Belisarius. For ten points, name this husband of Theodora who instituted the *Corpus Juris Civilis* and ordered the construction of the Hagia Sophia in the Byzantine Empire.

ANSWER: Justinian I (or Justinian the Great)

14. The protagonist of this movie ran guns for Ethiopia, an action that predated him being abandoned at a Paris train station. In this movie, the singing of "Le Marseillaise" drowns out a rendition of "Watch on the Rhine." This movie ends with the line (*) "Louis, I believe this is the beginning of a beautiful friendship." In this movie, the protagonist says "Here's looking at you, kid" to a character played by Ingrid Bergman who asks Sam to play "As Time Goes By." For ten points, name this 1943 Michael Curtiz movie in which the Humphrey Bogart-portrayed nightclub owner Rick Blaine helps Victor Laszlo and Ilsa escape the title Moroccan city.

ANSWER: Casablanca

15. One type of these phenomena possesses a strong silicon line at 615 nanometers and has a light curve with an inverse relationship with peak brightness. These phenomena can include the r-process and are classified based on whether Balmer lines are observed in the spectra. The synthesis of (*) heavy elements is thought to occur during these events, which are classified as Type II when a white dwarf exceeds 1.44 solar masses, or the Chandrasekhar limit. For ten points, name these stellar events occurring near the end of a star's life which result in a massive explosion.

ANSWER: Supernovae

16. In one painting by this man, a monarch butterfly sits on the shoulder of an African-American child who holds a sunflower in his right hand. This artist also included a small red building behind seven schoolboys who hold hands and play the title game in another work. This painter of (*) *Snap the Whip* depicted four males sitting on a ship named the *Gloucester* in another painting. In a different work by this artist, a black tornado brews in the upper right of the canvas and a black man sits on a ruined boat amidst several sharks. For ten points, name this 19th century American painter of *Breezing Up* and *The Gulf Stream*.

ANSWER: Winslow Homer

17. Near the site of this battle, James Aubrey Stewart and ten other members of the all-black 333rd Field Artillery Battalion were killed at Saint-Vith, now remembered as the Wereth 11. During this battle, escapees made use of the ODESSA trail and eighty-four American prisoners-of-war were executed in the Malmedy Massacre. A command to relinquish (*) Bastogne during this battle led General Anthony McAuliffe to reply with the phrase "Nuts!" It took place near the Ardennes and resulted in one side failing to capture the port city of Antwerp, Belgium. For ten points, name this last major German offensive of WWII.

ANSWER: Battle of the Bulge

18. The so-called “circle of confusion” is a point at which one of these devices fails. An approximation made with these objects is that “one over f equals n minus one,” is named for a “maker” of these devices, and applies only if they are (*) “thin.” These objects cause spherical and chromatic aberrations. The magnification of one of them is equal to the negative quotient of its distance from the image and from the object. Virtual images form on the same side of these devices as the object, as these devices work by refracting light through the focus, unlike mirrors. For ten points, name these devices which focus light and are used in microscopes.

ANSWER: lenses (accept more specific answers like concave or convex lenses)

19. In one of this author’s novels, a survivor of smallpox begins a life on a farm with Florens, who is sent to find a doctor after Rebekkah Vaark falls ill. Another of this author’s works centers on the love affair between Jadine and Son. This author of *A Mercy* wrote about a boy who was breastfed for unusually long as an infant. This creator of (*) Milkman Dead and author of *Tar Baby* also wrote a novel in which Paul D listens to Denver’s slave mother explain why she thought killing her daughter would be the best choice. For ten points, name this African-American author of *Song of Solomon* who wrote about Sethe in *Beloved*.

ANSWER: Toni Morrison

20. In one work, this author wrote about a man that develops a form of measuring distance jumped by a flea based on its buzz. This author also wrote about a contest between two playwrights that determine which of their works are better by placing quotes on a scale. In another play by this author, a (*) dog is accused stealing cheese and Philocleon is dragged away by his son. This playwright also wrote of a revolt led by Strepsiades against Socrates and his school, the Thinkery. For ten points, name this Athenian playwright of *The Wasps*, *The Frogs*, and *The Clouds*.

ANSWER: Aristophanes

YOU HAVE REACHED THE END OF THE ROUND. DO NOT GO ON TO TOSSUP 21 UNLESS THERE IS A TIE

21. In this novel, the protagonist’s friend tells him that he was put into a chain gang for saying “no.” One character in this book is forced to pick up coins off of an electric rug after delivering a speech. After arguing with his boss, the protagonist of this work causes an explosion at a paint factory. The protagonist witnesses a (*) Harlem riot started by a Brotherhood member named Ras the Destroyer. In this book, the “Battle Royale” ensues sometime after the protagonist reveals that he steals electricity to power hundreds of light bulbs. For ten points, name this novel about a black man with no identity, written by Ralph Ellison.

ANSWER: Invisible Man (do NOT accept “The Invisible Man” as that is by H. G. Wells)

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Round 6- Bonuses

1. For ten points each, answer the following about the expansion of the universe.

[10] According to this theory, the universe began as a dense, hot core and eventually cooled down to the point where the formation of atoms was possible.

ANSWER: **Big Bang** Theory

[10] The Big Bang theory is supported by the existence of this radiation left behind from the Big Bang. It corresponds to a near perfect blackbody and has a temperature of 2.7 Kelvin.

ANSWER: **CMBR** (or **Cosmic Microwave Background** Radiation)

[10] The expansion of the universe is also supported by this German astronomer's namesake paradox, which states the universe cannot be static due to the fact that the night sky is not as bright as the Sun.

ANSWER: Heinrich Wilhelm Matthias **Olbers**

2. These people massacred their eventual conquerors during "La Noche Triste." For ten points each:

[10] Name these people descended from the Mexica [pr. Me-she-ka]. Their empire was conquered in 1521 by Spanish explorer Hernan Cortes.

ANSWER: the **Aztecs**

[10] This leader of the Aztecs was killed during the primary phases of the Spanish conquest of the Aztecs. According to Bernal Diaz del Castillo's account, this man was basically stoned to death.

ANSWER: **Moctezuma II** (or **Montezuma II**)

[10] In Pre-Columbian America, the Mexica developed this method of agriculture. This method relied on organizing the usable soil into rectangular beds on lakes.

ANSWER: **chinampa**

3. This religion is known for raised towers called *dakhma*. For ten points each:

[10] Name this Persian religion founded by its namesake prophet. Members of this faith believe in a supreme god named Ahura Mazda.

ANSWER: **Zoroastrianism** (accept word forms)

[10] This most important text in Zoroastrianism is complimented with a series of commentaries called the *Zend* and contains hymns called the *Gathas*.

ANSWER: **Avesta**

[10] According to Zoroastrianism, this was the first person to inhabit the Earth. After being created, he is killed by Ahriman but prophesied that the humans will survive.

ANSWER: **Gayomart** (or **Keyumars**)

4. For ten points each, name these things about African-Americans and the South after the Civil War:

[10] These codified laws passed after the Civil War established the practice of segregating Black Americans from toilets, parks, and other facilities.

ANSWER: **Jim Crow** laws

[10] This rule passed to limit the voting rights of African-Americans stated that a black could only vote if the title relative was eligible to vote.

ANSWER: **"Grandfather clause"**

[10] In September 1895, the prominent African-American leader Booker T. Washington delivered an exposition on the status of blacks in this city.

ANSWER: **Atlanta**, GA

5. One character in this novel bets on the horse Throwaway at the Gold Cup Horse Race. For ten points each:

[10] Name this novel in which Leopold Bloom walks around Dublin and meets an autobiographical figure named Stephen Dedalus.

ANSWER: **Ulysses**

[10] *Ulysses* was written by this 20th century Irish author.

ANSWER: James Augustine Aloysius **Joyce**

[10] In this James Joyce short story, the protagonist idealizes the characteristics of Mangan's sister and discovers that a certain bazaar is not as wonderful as he'd expected.

ANSWER: "**Araby**"

6. One member of this artistic movement depicted its founder overlooking a stream in the Catskills. For ten points each:

[10] Name this 19th century American art movement which included Asher Durand, the painter of *Kindred Spirits*. It is named after a body of water near New York where its members principally worked.

ANSWER: **Hudson River** School

[10] This founder of the Hudson River School depicted a Native American in a windy landscape in the work *The Savage State* as part of the *Course of Empire* series.

ANSWER: Thomas **Cole**

[10] In Thomas Cole's *The Voyage of Life* series, which follows the life of an American man, the man is accompanied by this figure.

ANSWER: the **angel**

7. This character's daughter runs water on her face to clean a kiss. For ten points each:

[10] Name this literary character who becomes the mother of Pearl after having an affair with Arthur Dimmesdale. Her most notable article of clothing is shaped like an "A."

ANSWER: **Hester Prynne** (accept either)

[10] Hester Prynne appears in *The Scarlet Letter*, a novel by this 19th century American author who also wrote about a curse on the Pyncheon family in *The House of the Seven Gables*.

ANSWER: Nathaniel **Hawthorne**

[10] At the end of *The House of the Seven Gables*, the deed to the Maule residence is found hidden behind this object. This object was made forbidden to move by the owner.

ANSWER: the **portrait of** Colonel **Pyncheon** (prompt on partial answer)

8. This figure was killed after his mother Agave mistook him for a wild boar. For ten points each:

[10] Name this man from Thebes and descendant of Cadmus who ordered the killing of a priest after ignoring a seer's warnings of death.

ANSWER: **Pentheus**

[10] Pentheus ignored the warning of this seer who was turned blind after he witnessed Athena taking a bath. In another story, he was turned into a woman after hitting two snakes.

ANSWER: **Tiresias**

[10] Tiresias warned Pentheus he would be killed if he attempted to disturb the rites of this Greek god of wine.

ANSWER: **Dionysus**

9. This instrument, along with its larger counterpart, begins the melody in the allegretto section of Karl Jenkins's *Palladio*. For ten points each:

[10] Name this wooden string instrument with four strings. Two of these instruments form a string quartet with the cello and the viola.

ANSWER: **violin**

[10] This 19th century Italian violin virtuoso and legendary deal-maker with the devil is renowned for having composed twenty-four difficult violin caprices.

ANSWER: Niccolò **Paganini**

[10] The violin plays four connected sixteenth notes "con sirdini" at the beginning of a string quintet entitled *Minuet*, which is a piece by this other Italian composer.

ANSWER: Luigi **Boccherini**

10. Follow the geographical trail of Henry Morton Stanley's adventures in Africa. For ten points each:

[10] H.M. Stanley began his expedition to find Dr. Livingstone in a camp on this island north of Dar es Salaam. Located south of Pemba, it is off the shore of Tanzania.

ANSWER: **Zanzibar**

[10] Stanley's greeting "Dr. Livingston, I presume" was allegedly said at the village of Ujiji, situated near the banks of this lake, the second deepest in the world. It divides Tanzania from the Congo.

ANSWER: Lake **Tanganyika**

[10] Stanley also came across the permanently snow-capped Rwenzori Range located to the west of this nation. This country is to the east of Lake Albert.

ANSWER: Republic of **Uganda**

11. This character's sexual desires are rejected by his love interest in the aria "Vissi d'arte." For ten points each:

[10] Name this operatic character who after being stabbed has a crucifix placed on his body. At the end of the opera he appears in, it is revealed that he betrayed one character after the death of Cavaradossi.

ANSWER: Baron **Scarpia**

[10] Baron Scarpia appears in this opera in which the title character's love sings the aria "E lucevan le stelle" before being killed by a firing squad.

ANSWER: **Tosca**

[10] *Tosca* is a renowned opera by this mid 19th-century Italian composer who was also influenced by Japan to write an opera about the doomed Cio-Cio San, the title *Madame Butterfly*.

ANSWER: Giacomo **Puccini**

12. This organ's parietal cells are not destroyed because the acid is not released until it is in the lumen. For ten points each:

[10] Name this highly acidic digestive organ located below the diaphragm. It releases gastric acid, which mixes with food to produce chyme.

ANSWER: **stomach**

[10] Connected to the stomach are these valves that regulate peristalsis, or the pushing of food, through the alimentary canal.

ANSWER: **sphincters**

[10] After leaving the stomach, fat-rich food is pushed down to the duodenum. There, digestion is inhibited by CCK and this substance, which also stimulates the pancreas to release bicarbonate.

ANSWER: **secretin**

13. Miller indices are used to describe these arrangements, which Gauss proved can have a packing efficiency no greater than π divided by three root two. For ten points each:

[10] Name these regular arrangements of crystals, which are repetitions of a unit cell in all directions. Hexagonal-close packing is an example of geometry of these structures.

ANSWER: crystal **lattices**

[10] One common crystal lattice is called the halite, or rock crystal, structure, and consists of these two elements. These two elements are found in table salt.

ANSWER: **sodium** and **chlorine** (accept **sodium chloride** or **NaCl**)

[10] The halite crystal lattice is an adaptation of this one, which maximizes packing efficiency. There are four lattice points in this structure, which contains atoms at the vertices of the cube as well as atoms on each side of the cube.

ANSWER: **face-centered cubic** (or **fcc**; or **cF**; or **cubic close packed**; or **ccp**)

14. The protagonist of this novel takes the flight of crows on his third daughter's birthday as a bad omen. For ten points each:

[10] Name this novel about a slave from the house of Hwang. In this novel, the marriage between Wang Lung and O-Lan is completed after the burning of incense.

ANSWER: *The **Good Earth***

[10] This American author who spent most of her life in China wrote *The Good Earth*.

ANSWER: Pearl Sydenstricker **Buck** (or **Sai Zhenzhu**)

[10] Once Wang Lung and his family enter the city, Wang Lung gets a job doing this. He spends his days with this job until the town is invaded by an enemy force.

ANSWER: **pulling a rickshaw** (or **rickshaw driver** or other equivalents)

15. The first of these institutions based on the reforming Kirkbride Plan was constructed in New Jersey. For ten points each:

[10] Name these institutions or hospitals which were usually overcrowded and housed patients with psychiatric problems.

ANSWER: mental **asylums** (accept equivalents like "mental institution")

[10] In the 1940s, this woman supported the actions of conscientious objectors for asylum reform and sponsored the *National Mental Health Foundation*. She later became the first chairman of the UN Commission on Human Rights.

ANSWER: Eleanor **Roosevelt** (prompt on "Roosevelt")

[10] This 19th century female evangelist is known for pushing the Massachusetts state legislature to reform its insane asylums. She also helped twenty-eight states establish institutions for the insane.

ANSWER: Dorothea **Dix**

16. In her most famous book, Cynthia Eller refutes the idea that Venus figurines indicate the existence of these societies. For ten points each:

[10] Name these societies in which females hold the dominant authority, sometimes due to the belief that mothers hold religious power. They are contrasted with patriarchies.

ANSWER: **matriarchy** (or **matriarchal** or **gynocracy**; accept word forms)

[10] These Native Americans of the Northeast traced family back through the female line and were largely matriarchal. These "People of the Longhouse" partly inspired Lewis Henry Morgan's book *Ancient Society*.

ANSWER: **Iroquois**

[10] A sculpture of leopards next to a seated woman is one artifact cited over the debate on whether this civilization was matriarchal or not. It was located in southern Anatolia near the Konya Plain.

ANSWER: **Catal Hüyük** (or **Catalhöyük** or **Catal Höyük**)

17. (Moderator note: Read all parts of this bonus, SLOWLY)

Consider a skydiver of mass m , subjected to air resistance of the form negative b times velocity, where b is a positive constant. For 10 points each:

[10] Because she is on an incline, the skier's acceleration downward will be slightly less than acceleration due to gravity, which equals *this* many meters per second squared on Earth. Give your answer with two significant figures.

ANSWER: **9.8** meters per second squared (accept **9.81** meters per second squared from people who do not listen)

[10] Without calculus, it is fairly easy to calculate this speed, at which the skier's net acceleration is zero. For an object in free fall, this speed occurs when the drag and gravitational forces balance.

ANSWER: **terminal** velocity

[10] In terms of the skydiver's mass m , acceleration due to gravity g , and the parameter b , express the skydiver's terminal velocity. You have five seconds.

ANSWER: **mg over b** (accept mathematical equivalents of **mg/b**)

18. In September 2012, sanctions against this country's speaker of the lower parliament Thura Shwe Mann were lifted. For ten points each:

[10] Name this Asian nation in which the president recently declared that over 500 political prisoners would be released. This nation was formerly known as Burma.

ANSWER: **Myanmar**

[10] This Burmese activist for democratic freedom was recently released from fifteen years of house-arrest and received the Congressional Gold Medal.

ANSWER: Daw Aung San **Suu Kyi**

[10] The US sanctions in Myanmar were lifted in response to both the desires of Suu Kyi and the political changes instituted by this current President of Myanmar.

ANSWER: Thein **Sein**

19. One event in this modern-day nation was vehemently opposed by Tadeusz Reytan. For ten points each:

[10] Name this nation which in 1772-1775 experienced its first partition by the Sejm [pr. SAME] Parliament, ending a commonwealth with Lithuania.

ANSWER: Republic of **Poland** (or **Polsko** Repùblika)

[10] The First Partition of Poland was a major victory for this Prussian leader. This "enlightened despot" was a member of the Hohenzollern line and fought in the Austrian Succession against Maria Theresa.

ANSWER: **Frederick** the **Great** (or **Frederick II** or **Frederick IV** of **Brandenburg**; prompt on "Frederick")

[10] An event which directly led to the First Partition of Poland was Grand Duke Stanislaw Poniatowski's war against this short-lived group of Polish nobles. It took its name from a region in Ukraine.

ANSWER: **Bar** Confederation (or Konfederacja **barska**)

20. This character dances with Harriet Smith after she is ignored by Mr. Elton. For ten points each:

[10] Name this character, the owner of Donwell Abbey, who proposes to his love after returning home due to the death of Frank Churchill.

ANSWER: Mr. **George Knightley** (accept either name)

[10] George Knightley falls in love with the title character at the end of this book. In it, the title matchmaker attempts to help Jane Fairfax find a spouse.

ANSWER: **Emma**

[10] *Emma* is a novel by this English author. Mr. Darcy and one of the Bennett sisters eventually fall in love in this author's *Pride and Prejudice*.

ANSWER: Jane **Austen**

21. These substances are absorbed back into neurons during reuptake. For ten points each:

[10] Name these chemicals that relay signals between neurons. One of these substances used to treat depression is named serotonin.

ANSWER: **neurotransmitters**

[10] This neurotransmitter is created in the substantia nigra of the brain and is the primary cause for the feelings of pleasure as well as reward.

ANSWER: **dopamine**

[10] This inhibitory neurotransmitter is created from glutamate and aids with stopping convulsive motions.

Depressants called barbiturates bind to the receptors of this compound.

ANSWER: **GABA** (or **gamma-Aminobutyric acid**)