



## NSC 2018 - Round 02 - Tossups

1. A 1958 book on the "method of theory" of the "American" form of this discipline stated the authors' belief that this discipline is "anthropology or it is nothing." A 20th-century practitioner of this discipline adapted Robert Merton's idea of "middle range theories" to describe an approach to this discipline that involved ethnographic fieldwork among hunter-gatherer societies. Lewis Binford pioneered the "new," or (\*) "processual," form of this discipline. The "Harris matrix" is a method of creating seriation diagrams in this discipline that rely on the laws of "original horizontality," "stratigraphic succession," and "superposition." Sites such as Göbekli Tepe (go-BEK-lee TEH-pay) and Cahokia (kuh-HO-kee-uh) are examined by practitioners of, for 10 points, what academic discipline concerning the excavation of human-built sites?

ANSWER: archaeology [accept ethnoarchaeology or processual archaeology or new archaeology or middle-range archaeology; accept forms of the word archaeology such as archaeological study; do not accept or prompt on "paleontology" or similar answers]

<Hart, Social Science - Other>

2. Residents of a locale created by this author include Elias, who fails exams to be a doctor and a sanitary inspector before eventually becoming a cart driver, and a poet who fails to write anything past the first line of his magnum opus and is named B. Wordsworth. In another novel by this author, Father Huismans collects African masks, and a man who worships the cult of the Black Madonna takes over an unnamed town. The shopkeeper Salim lives in a country led by the (\*) Big Man in a novel by this man, who also wrote *Miguel Street* and a novel whose title character, an eleven-fingered sign-painter, marries into the overbearing Tulsi family. For 10 points, name this Indo-Trinidadian author of *A Bend in the River* and *A House for Mr. Biswas*.

ANSWER: V. S. Naipaul [or Vidiadhar Surajprasad "Vidia" Naipaul]

<Cheng, Literature - World>

3. This man lends his name to a type of tree that legendarily won't bloom until kicked by a young woman. The "black" legends about this monarch hold that he killed 99 of his siblings. After his death, his throne was disputed by his sons Jaluka, Tivara, and Kunala. He may have abolished the death penalty and founded some 84,000 religious institutions. He convened a religious council at Pataliputra, and his son Mahendra brought a (\*) bodhi branch with him on a religious mission to Sri Lanka. Some monuments created by this man were inscribed in Brahmi, others were inscribed in Greek. His namesake Lion Capital now appears on a flag. This grandson of Chandragupta erected rock edicts following a conversion in Kalinga. For 10 points, name this Mauryan emperor who became a Buddhist.

ANSWER: Ashoka [or Asoka; or Ashoka the Great]

<Bentley, History - World>

**4. Von Weizsäcker (VYTE-secker) developed a functional to describe this quantity that is commonly used in Thomas–Fermi DFT. This quantity is transferred from large-scale to small-scale eddies in a Kolmogorov (kull-ma-GOR-uff) cascade. In time-of-flight mass spectrometry, all ions with the same charge will also have the same value of this quantity. By measuring this quantity for an emitted photoelectron, one can calculate the work function of a metal. This quantity equals " $\gamma$  minus one times (\*)  $m c$ -squared" in special relativity, and " $p$ -squared divided by  $2m$ " in Newtonian mechanics. This quantity is conserved in elastic collisions but not inelastic collisions. For 10 points, name this quantity which equals one-half times mass times velocity squared and represents the energy of motion.**

ANSWER: **kinetic energy** [prompt on  $K$  or  $T$ ; prompt on energy]

<Mukherjee, Science - Physics>

**5. This event begins in Cologne on the 11th hour of the 11th day of the 11th month, and in medieval times, it saw a ceremonial transfer of power to women. Popes Leo X and Clement VII both banned the practice of throwing rotten oranges at Jews who were forced to run naked through Rome during this event. Fastnachtsspiel (FOSST-nokt-shpeel) plays were staged in Germany during this event. In France, this event typically began on Quinquagesima Sunday, while Bavarians start celebrating it after the (\*) Feast of the Epiphany. In many regions, this event is most commonly celebrated on Shrove Tuesday. The name of this festival may come from the Latin phrase "the pleasure of meat," as meat is forbidden in the season that follows it. For 10 points, name this merry Catholic festival that takes place prior to Lent.**

ANSWER: **carnival** [accept **Fasching** until "Fastnachtsspiel" is read; anti-prompt on Shrove Tuesday or Mardi Gras by asking "can you be less specific?"]

<Bentley, RMP - Bible/Christianity>

**6. This man developed a limp while participating in an invasion of Azamor in Morocco, and he defected from his country due to lack of royal compensation. Thirty members of this man's crew were killed when they were ambushed at a banquet hosted by Humabon. The House of Trade sponsored a voyage by this man to find the Spice Islands that was chronicled by Antonio Pigafetta. This European's forces were defeated by chief Lapu-Lapu. 27 of his men died of (\*) scurvy before reaching the islands of Rota and Guam. This captain of the *Trinidad* died in the Philippines from a poisoned arrow to the leg. He led ships from the Atlantic to the Pacific Oceans through a body of water now named for him. For 10 points, name this man who died leading the first circumnavigation of the earth.**

ANSWER: Ferdinand **Magellan** [or Fernão de **Magalhães**; or Hernando de **Magallanes**]

<Bentley, History - European>

**7. A play that won the Pulitzer Prize at the beginning of this decade depicts the reunion of the Magrath Sisters after Babe shot her husband; that play is Beth Henley's *Crimes of the Heart*. A play set during this decade is the subject of Isaac Butler's and Dan Kois's "oral history" *The World Only Spins Forward*. In that play set during this decade, characters named Oceania, Asiatica, Europa, and Antarctica meet in the Council Room of the Continental (\*) Principalities. That play set during this decade is divided into the two parts "Millennium Approaches" and "Perestroika," and opens with the revelation that Prior Walter has an incurable disease. For 10 points, name this decade that provides the setting for Tony Kushner's *Angels in America*, which focuses on the AIDS epidemic.**

ANSWER: **1980s**

<Jose, Literature - American>

**8. A piece in this genre slowly introduces the theme (read slowly and pause briefly at commas) "E, E E E, F, E, C, E" for 4 bars before it is played in triads under long falling chromatic scales. It's not a lied (teed), but a galloping horse reaches exhaustion in the slower "Animato" section of one of these pieces based on a Victor Hugo poem, which opens with a descent of broad, rolled diminished 7th chords before a cadenza. In one of these pieces, the right hand plays rapid triplets in G-flat major (\*) pentatonic. "La Campanella" is the third "Grand Paganini" piece in this genre by Franz Liszt (list), who composed "Mazeppa" in a set of "Transcendental" pieces in this genre. Frédéric Chopin (sho-PAN) performed ones nicknamed "Black Key" and "Revolutionary." For 10 points, name these pieces written to train musicians.**

ANSWER: **etudes** [or piano **etudes**; accept Chopin's **etude**s or Liszt's **etudes**; accept **Transcendental Etudes** or **Études d'exécution transcendante** or **Grand Paganini Etudes** or **Grandes études de Paganini**; prompt on **study** or **studies**]

<Bollinger, Arts - Music>

**9. It's not electrophoresis (electro-for-EE-siss), but running this technique, removing the solvent, rotating the system 90 degrees, and adding a new solvent is this technique's two-dimensional form. A polyhistidine (poly-HISS-tid-een) tag and nickel, or GST and glutathione (gloot-uh-THIGH-own), are common methods of immobilizing biomolecules in the "affinity" version of this technique. Salt concentration is tightly controlled in the ion-exchange form of this technique, and broadening in it is described by the (\*) van Deemter equation. A column full of gel is used in this technique's gel permeation type, while the HPLC (H-P-L-C) type performs it at high pressure. Every technique of this kind has a stationary and a mobile phase. For 10 points, identify this technique that separates mixtures, such as ink on wet paper.**

ANSWER: two-dimensional **chromatography** [or affinity **chromatography**; or ion-exchange **chromatography**; or gel permeation **chromatography**; or high-pressure liquid **chromatography**; prompt on **IEC**, **GPC**, or **HPLC**]

<Prieto, Science - Chemistry>

**10. Kreiner showed the negative effects of this type of policy when Danish citizens turn 18. A 2016 law applies this type of policy only to Britons older than 25. Some 300,000 Albertans are slated to benefit from a change in this policy that mirrors one passed in 2014 by now-disgraced mayor Ed Murray. Researchers at Berkeley and the University of Washington put out rival studies in 2017 about whether this type of policy reduced available (\*) hours. SMIC (S-M-I-C), a French policy of this type, is adjusted each January based on factors such as the consumer price index. A "ten ten" policy of this type in the US would bring 900,000 people out of poverty, while one in Seattle may be negatively affecting restaurant jobs. For 10 points, name this policy that sets the lowest amount of money that a worker can legally be paid.**

ANSWER: **minimum wage** [or National **Living Wage**; or changing the **minimum wage**; or raising the **minimum wage**; or 15-dollar **minimum wage**; do NOT accept things such as "universal basic income"; prompt on **wage**]

<Bentley, Current Events - Foreign>

**11. Description acceptable. A proposal that this process would occur on the "same terms" at the Constitutional Convention was defeated by Gouverneur Morris. John A. Burns, the architect of the most recent successful campaign for this result, was subsequently defeated by William F. Quinn in a 1959 gubernatorial race. Plural marriages were forbidden by a law that started this process, the Enabling Act of 1894. One unusual route to this process began with the 1861 (\*) Wheeling Convention. This process is typically preceded by the writing and ratification of a constitution. It's not independence, but in 2012, 61 percent of voters supported starting this process in Puerto Rico. For 10 points, name this action which allowed the United States to expand beyond the original thirteen colonies.**

ANSWER: **admission** of a new **state** to the Union [or admission of a **new state** to the United States of America; or **joining** the **Union**; accept **statehood**; prompt on answers like splitting a state into two, or seceding from a state, or creating a territory, or incorporating a territory]  
<Bentley, History - American>

**12. The so-called "Islamic Wing" of this institution was designed by Kevin Roche, the architect who has been responsible for all its expansions, and who created a new master plan for it in the 1970s. After Calvert Vaux's design for this building was criticized in 1871, a Beaux Arts-style grand stairway and facade designed by Richard Morris Hunt was installed near the end of the 19th century. A part of this institution in Fort Tryon Park devoted to subjects from the Middle Ages is called The (\*) Cloisters. This institution's main collection, which includes David's (dah-VEED's) *The Death of Socrates* and Winslow Homer's *The Gulf Stream*, is in a set of buildings on Fifth Avenue, between 81st and 84th streets. For 10 points, name this largest art museum in New York City.**

ANSWER: **Metropolitan** Museum of Art [or The **Met**]  
<Jose, Arts - Misc>

**13. The amount of two isoforms of creatine kinase can be used to test for this condition in the CK-MB test. Sgarbossa's (SCAR-bo-sah's) criteria can help to diagnose this condition, especially when it is complicated by the presence of a left bundle branch block. The levels of troponins T and I can indicate the presence of this condition. This condition can be classified into ST elevation and non-ST elevation types based on the result from an (\*) ECG. This condition can be caused by the buildup of cholesterol into plaques of coronary arteries, known as atherosclerosis (ATH-er-oh-sclerosis). Common symptoms of this condition include shortness of breath and chest pain radiating up the left arm. For 10 points, name this condition in which blood flow stops to a part of the heart.**

ANSWER: **heart attack** [or **myocardial infarction**; prompt on **MI**]  
<Ramaswami, Science - Biology>

**14. In one novel by this author, the protagonist visits Brighton with the prostitute Milly and her daughter Winnie so that private detectives can give his wife evidence to divorce him. Another of this author's characters receives a turtle engraved with diamonds forming her initials from her husband Rex Mottram. In a novel by this author, the owner of Hetton Abbey is held captive in the Brazilian jungle by Mr. Todd, who forces him to (\*) read Dickens novels forever. In this author's most famous novel, Lord Marchmain's deathbed conversion inspires Julia to break with Charles Ryder, who is brought to the title estate by his friend Sebastian Flyte. For 10 points, name this satirical English novelist of *A Handful of Dust* and *Brideshead Revisited*.**

ANSWER: Evelyn **Waugh** (wah) [or Arthur Evelyn St. John **Waugh**]  
<Bollinger, Literature - British>

**15. This philosopher recounted a parable by Zeno of Citium which compared the way the soul assents to a clear perception, or *katalepsis*, to a fist. Macrobius wrote a Neoplatonic commentary on a passage by this philosopher in which Scipio is presented with visions of life after death and the nine celestial spheres. This philosopher discussed conflicts between honor and expediency in a Stoic-influenced essay for his son, (\*) *De Officiis* (day OFF-ih-KEE-eess), and wrote a dialogue on Roman history and government called *De Re Publica*. Petrarch's rediscovery of this man's letters in the 14th century reignited interest in classical culture. For 10 points, name this Roman statesman and orator whose denunciations of Marc Anthony in the *Philippics* led to his assassination.**

ANSWER: Marcus Tullius Cicero

<Kothari, RMP - Philosophy>

**16. During a campaign to this modern-day country, Geoffroy Saint-Hilaire (jo-FWAH duh SAN-tee-LAIR) performed edifying shark dissections for crewmen. On the way to this non-island country, the namesake of the Dolomite Mountains secured the surrender of the Knights Hospitaller. 151 "savants" who joined a campaign here produced an encyclopedia called the "Description" of it. A general used the divisional square tactic and told troops that "40 centuries look down upon you" at a (\*) 1798 battle in this country. Horatio Nelson was non-fatally wounded in this country at the Battle of Aboukir Bay. During Napoleon's campaign in this country, a trilingual stele was found that helped decipher an ancient script. For 10 points, name this site of the Battle of the Pyramids.**

ANSWER: Egypt [or Arab Republic of Egypt]

<Bentley, History - European>

**17. A man from Argos who has this occupation meets Telemachus in Sparta and hitches a ride to Ithaca with him. Another of these people takes a reviving herb from a snake after finding the body of the child Glaucus in a pot of honey. Theoclymenus (thee-oh-klih-MAY-nus) and Polyidus (poly-EYE-dus) did this job, as did a brother of Bias who pulled a knife out of a tree, then used it to heal the son of Anaxagoras. That man with this occupation heard two termites (\*) talking in his prison cell, warning him of its impending collapse. Melampus had this occupation, as did both Mopsus and his rival Calchas. Another of these characters spent seven years as a woman and served as an advisor in Thebes. For 10 points, identify the occupation of Tiresias and others who had visions of the future.**

ANSWER: seers [or prophets; or augurs; or soothsayers; prompt on oracles]

<Carson, RMP - Greco-Roman Myth>

**18. A. J. R. Prentice theorized that this entity formed as a result of the shedding of systems of rings and tori (TOR-eye) of gas. This entity is treated as a dynamical system that evolves over time in the Nice (NEESE) model. Pierre-Simon Laplace proposed that this structure formed after a giant molecular cloud collapsed, creating a "disk" from which this structure's constituents formed. The (\*) Hill sphere is often used to define the boundaries of this structure, which extends beyond both TNOs and Kuiper (KYE-per) belt objects. The farthest edge of the Oort Cloud and the heliopause (HEEL-ee-oh-pause) have been proposed as alternate ways to define the boundaries of this set of objects. For 10 points, name this astronomical structure, which includes eight planets and the Sun.**

ANSWER: the Solar System [accept the planets of the Solar System]

<Jose, Science - Astronomy>

**19. This character gets a package on his birthday containing two books translated by Wetstein (VET-styne) to replace his large, unwieldy Ernestine edition, as well as a pink ribbon. This character goes on to live a boring, everyday life after another character foils his plans with some pellets of chicken blood in a parody by Friedrich Nicolai. He resigns from a diplomatic job after an embarrassing incident in which he is snubbed by a group of aristocrats at a party held by (\*) Count C. After a scene in which he emotionally recites passages from Ossian (AW-shin), this character claims to be going on a "journey" into the mountains as a pretext to borrow a pair of pistols from Albert. For 10 points, name this character whose obsessive love for Lotte (LOH-teh) is the subject of an early novel by Goethe (GUR-tuh).**

ANSWER: **Werther** (VAIR-ter) [accept Young **Werther**]

<Games, Literature - European>

**20. A political cartoon from the *Almanack of the Month* depicted this man painting with a mop. He created several whale paintings for oil tycoon Elhanan Bicknell. Rachel Whiteread and Damien Hirst have both won a prize named for this artist awarded by the Tate. The National Gallery exhibits some of his paintings next to those of Claude Lorrain, an artist who inspired his seascape *Dido Building Carthage*. In one of this artist's paintings, a (\*) rabbit rushes out of the way of a vehicle coming towards the viewer on the Maidenhead Railway Bridge. In another of his works, sharks pursue the chained bodies that have been thrown overboard by the captain of the title vessel. For 10 points, name this British landscape artist of *Rain*, *Steam and Speed* and *The Slave Ship*.**

ANSWER: J. M. W. **Turner** [or Joseph Mallord William **Turner**]

<Bentley, Arts - Painting>

**21. In a story from the *Jataka*, lightning destroys a hunter's house as punishment for killing three of these beings, namely Nandiya, Jollikin, and their starving mother. A Japanese folktale depicts one of them being revenge-killed by the children of a crab. One of these beings marries the widowed Tara after defeating his own brother to become the king of Kishkindha. A deity who resembled this animal was conceived when his mother ate divine cake sent by the wind god Vayu; that deity once once (\*) lifted an entire mountain while searching for an herb. Sugriva and other *vanaras* are generally depicted in the form of this animal, as was a deity who destroyed Lankapuri after Ravana's guards set his tail on fire. For 10 points, name this type of animal, whose form is taken by Hanuman.**

ANSWER: **monkeys** [prompt on vanaras until "vanaras" is read]

<Games, RMP - Other Myth>



## NSC 2018 - Round 02 - Bonuses

1. Early explorers hoped that this thing would lead them to a civilization described by Herodotus that supposedly had vast troves of amber and animal skins. For 10 points each:

[10] Identify this route sought by explorers such as Martin Frobisher. The Vancouver Expedition did not find any evidence for this route's existence.

ANSWER: **Northwest Passage**

[10] For his third voyage, this explorer was given a secret mission to find the Northwest Passage in the Pacific Ocean. He explored the coast of Australia on the *HMS Endeavour*.

ANSWER: James **Cook**

[10] John Murray's account of this man's doomed 19th-century expedition to find the Northwest Passage is titled *The Man Who Ate His Boots*. This man's ship, the HMS *Erebus*, was found in 2014.

ANSWER: Sir John **Franklin**

<Bentley, History - European>

2. This algorithm is used to minimize a cost function in many machine learning techniques. For 10 points each:

[10] Name this common optimization algorithm that finds the steepest negative slope at each step and proceeds in that direction until reaching a local minimum.

ANSWER: **gradient descent** [prompt on steepest descent; prompt on gradient algorithm]

[10] A gradient is calculated using "partial" forms of this operation. In single-variable calculus, this operation, the opposite of integration, can be found using the chain rule.

ANSWER: **differentiation** [or derivative; accept word forms; accept partial derivative]

[10] Gradients are also used in optimizing functions subject to a constraint, along with "multipliers" symbolized lambda that are named for this man. He discovered, and is the namesake of, a formula for calculating the error of a function's Taylor approximation.

ANSWER: Joseph-Louis **Lagrange** [accept Lagrange multipliers or Lagrange error/remainder formula]

<Rosenberg, Science - Math>

3. This city was built on top of the ancient cities of Nicephorium and Callinicus. For 10 points each:

[10] Identify this Syrian city east of Aleppo and located near the confluence of the Balikh and Euphrates Rivers. Harun al-Rashid moved his capital to this city in 796.

ANSWER: **Raqqa** [or Rakka; or Al-Raqqah]

[10] In June 2014, this organization declared a new caliphate with Raqqa as its capital. This organization's finances were hurt when it lost control of oil fields near Tikrit.

ANSWER: **ISIS** [or Islamic State of Iraq and the Levant; or ISIL; or IS; or Islamic State of Iraq and Syria; or Islamic State of Iraq and al-Sham; or Daesh]

[10] In the 1960s, Raqqa's economy grew thanks to workers on one of these projects. One of these things in Mosul formerly named for Saddam Hussein poses a great danger to the surrounding region.

ANSWER: hydroelectric **dam**

<Bentley, Geography - World>

4. John Carisi composed his own track, "Israel," for an album depicting the "birth" of this genre of music, which also features tracks like "Boplicity" and "Jeru." For 10 points each:

[10] Name this genre of music that countered the frenetic style of bebop, popularized on the West Coast by musicians like Gerry Mulligan and Stan Getz.

ANSWER: **cool** jazz [prompt on jazz]

[10] This jazz trumpeter collaborated with Gil Evans on *The Birth of the Cool*. Ten years later, he included the tracks "Flamenco Sketches" and "Freddie Freeloader" on his album *Kind of Blue*.

ANSWER: Miles **Davis** [or Miles Dewey **Davis** III]

[10] Davis's *Sketches of Spain* opens with an arrangement of this piece by Joaquín Rodrigo (**wa-KEEN rod-REE-go**) for guitar and orchestra, which itself was inspired by a spring resort built by Philip II.

ANSWER: ***Concierto de Aranjuez*** (**kon-see-AIR-toh deh AH-rah-n-wezz**)

<Kalathiveetil, Arts - Jazz>

5. In a novel from this sequence, the title piece of hide fulfills all of Raphael de Valentin's (**vah-lon-TAN's**) wishes, but shrinks each time a wish is made. For 10 points each:

[10] Name this sprawling sequence of novels that includes *The Wild Ass's Skin*. In another novel from this collection, Anastasie and Delphine only send their coaches to the funeral of their father, a retired pasta maker.

ANSWER: *The **Human Comedy*** [or *La **Comedie Humaine***]

[10] *The Human Comedy* is a sequence of novels, including *Le Père Goriot* (**luh PAIR gor-YO**), set in 19th-century France and written by this prolific author.

ANSWER: Honoré de **Balzac**

[10] Recurring characters in *The Human Comedy* include this upwardly-mobile law student, who shouts "It's between the two of us now!" at Paris from a cemetery after attending Goriot's funeral.

ANSWER: **Eugène de Rastignac** (**oo-ZHEN duh ross-teen-YAHK**) [accept either underlined portion]

<Bollinger, Literature - European>

6. The Casparian strip splits this space in half and blocks diffusion of water and solutes through it. For 10 points each:

[10] Name this plant structure, the intercellular space outside the plasma membranes of neighboring cells. This structure names a type of transport contrasted with symplastic transport.

ANSWER: **apoplast** [accept **apoplastic** transport]

[10] A common example of apoplastic transport involves these channels that connect plant cells, which can contain flattened pieces of endoplasmic reticulum called desmotubules. These channels are analogous to gap junctions in animal cells.

ANSWER: **plasmodesmata**

[10] Plasmodesmata cut through these structures of adjacent plant cells. Plants generally have primary and secondary forms of this structure, which is mostly made of cellulose.

ANSWER: **cell walls**

<Ramaswami, Science - Biology>

7. Identify the following about the almost-war between the United States and Great Britain in the 1850s, for 10 points each.

[10] British ambassador John Crampton recruited US citizens to fight in this war in violation of the Neutrality Act. US sentiment supported Russia in this conflict over a namesake peninsula.

ANSWER: **Crimean** War [or War of the **Crimea**]

[10] In Central America, the British frequently got into skirmishes with Accessory Transit Company, a firm owned by this shipping tycoon who founded a namesake Southern university.

ANSWER: Cornelius **Vanderbilt** [or Commodore **Vanderbilt**]

[10] This American was seized by the British government in 1860 and executed in Honduras. A national holiday in Costa Rica celebrates Juan Santamaria setting this mercenary's hotel on fire in 1856.

ANSWER: William **Walker**

<Bentley, History - American>

8. Mulk Raj Anand wrote about his ambivalent relationships with many members of this group in a 1981 memoir titled for *Conversations in* this group. For 10 points each:

[10] Name this literary group whose members included Clive and Vanessa Bell and Lytton Strachey. Many of its members were inspired by G. E. Moore's *Principia Ethica*.

ANSWER: **Bloomsbury** Group

[10] Anand praised the anti-imperialistic views of this member of the Bloomsbury Group. He declined to publish his novel *Maurice* during his lifetime because of its gay themes.

ANSWER: E. M. **Forster** [or Edward Morgan **Forster**]

[10] Together with her husband Leonard, this member of the Bloomsbury Group founded Hogarth Press. She also wrote *To the Lighthouse*.

ANSWER: Virginia **Woolf**

<Kothari, Literature - British>

9. Answer the following about theoretical "triple goddesses," for 10 points each.

[10] A papyrus containing magic spells calls Selene, the goddess of this object, "triple-faced." In Roman mythology, this object was guarded over by a goddess named Luna.

ANSWER: the **Moon** [or Earth's **Moon**]

[10] This nocturnal Greek goddess of magic, who is often found at crossroads, is often depicted as being three-faced.

ANSWER: **Hecate** (HEH-kah-tee)

[10] This mythographer theorized that Persephone, Artemis, and Demeter were three aspects of the "triple goddess" Hecate in his book *The White Goddess*. His book *Hercules, My Shipmate* retells the voyage of the Argonauts.

ANSWER: Robert **Graves** [or Robert (von) Ranke **Graves**]

<Jose, RMP - Greco-Roman Myth>

10. Peter Schjeldahl (**SHELL-dahl**) has termed Meyer Schapiro's visit to a certain artist's studio "history's luckiest studio visit," since it inspired the artist to finish this series. For 10 points each:

[10] Name this series that uses "swathes of abstraction" to represent the flesh of its subjects. The third entry in this series was sold for over 130 million dollars in 2006.

ANSWER: **Woman** series [or **Women** series]

[10] The *Woman* series was produced by this Dutch abstract expressionist, whose wife Elaine claimed that she was not the model for any of the figures in the paintings.

ANSWER: Willem de **Kooning**

[10] De Kooning's *Woman* series derived inspiration from this artist's depictions of his muse Dora Maar. This artist's other depictions of women include *Les Femmes d'Alger (O.J. Version O)* (**lay dum-wah-ZELL dah-veen-YAWN**).

ANSWER: Pablo **Picasso** y Ruiz

<Jose, Arts - Painting>

11. In the Eyring (**EYE-ring**) equation, this quantity is replaced by Boltzmann's constant times temperature times a constant for dependence on concentration, all divided by Planck's constant. For 10 points each:

[10] Identify this quantity that imparts a collision frequency dependence in a certain equation.

ANSWER: **pre-exponential** factor [or **A**; prompt on **frequency factor**]

[10] The pre-exponential factor multiplies the exponential of negative activation energy divided by  $RT$  in this equation, which calculates the temperature dependence of kinetic rate constants.

ANSWER: **Arrhenius** equation

[10] The Eyring equation originates out of the theory of these entities, which are located at saddle points on a reaction's potential energy surface.

ANSWER: **transition state** [or **activated complexes**]

<Prieto, Science - Chemistry>

12. In one work, this philosopher critiques the depictions of interethnic sexuality in René Maran's *A Man Like Others*. For 10 points each:

[10] Name this Martinican philosopher who wrote that black subjects developed inferiority complexes through "epidermalization" in *Black Skin, White Masks*. He reconsidered the lumpenproletariat in *The Wretched of the Earth*.

ANSWER: Frantz (Omar) **Fanon** (**fah-NAWN**)

[10] The preface to Fanon's *The Wretched of the Earth* was written by this existentialist. This Frenchman discussed "bad faith," or *mauvaise foi* (**moh-VEZZ FWAH**), in his book *Being and Nothingness*.

ANSWER: Jean-Paul **Sartre**

[10] The first part of *The Wretched of the Earth* is titled for this phenomenon. Fanon called this phenomenon man recreating himself, and defended it by claiming that "in its bare reality, decolonization reeks of" this phenomenon.

ANSWER: **violence** [accept "**bloody knives and cannonballs**"]

<Kothari, RMP - Philosophy>

13. One writer asserted that this group was both everything and nothing, and that it was opposed by more privileged orders that were a "malignant tumor" on society. For 10 points each:

[10] Identify this group that was defined by the Abbé Sieyès (ah-BAY s'yay-YESS) in an influential pamphlet whose title asks "what" it is.

ANSWER: the **third estate** [accept *What Is the Third Estate?*; accept *le tiers-état*]

[10] The members of the third estate, finding that the doors of their meeting hall at Versailles (vair-SIGH) were locked, moved to one of these sporting facilities and swore a namesake oath.

ANSWER: indoor **tennis court** [or *salle du jeu de paume*]

[10] During the *ancien régime* (on-s'YEN ray-JEEM), bourgeoisie (boor-jwah-ZEE) of the Third Estate who became members of the Second Estate by holding administrative posts or purchasing titles were known as "nobility of" this sort of item, in contrast to the older class of "nobles of the sword."

ANSWER: the **robe** [or the **gown**]

<Bentley, History - European>

14. During the ancient era, this good was exported from the region of Dhofar (THOUGH-far). For 10 points each:

[10] Name this white resin from African and Arabian trees that is often burned for its aroma. Herodotus claims that extracting it was dangerous since snakes lived in the trees that accumulate it.

ANSWER: **frankincense** [or **olibanum**]

[10] Frankincense and the similar myrrh (murr) were two of the gifts that this group brought to honor the birth of Jesus Christ.

ANSWER: the **Magi** [or **Three Wise Men**; or **Three Kings**; or **magus**]

[10] Frankincense is extracted from trees whose Latin name refers to this Scottish author, a diarist whose *Journal of a Tour to the Hebrides* describes a journey taken with another author.

ANSWER: James **Boswell** [or James **Boswell**, 9th Laird of Auchinleck]

<Jose, Mixed/Other/General Knowledge>

15. In this play's third act, Henry Drummond tells the story of how he received a rocking horse named Golden Dancer as a youth. For 10 points each:

[10] Name this play that ends with Bertram Cates being fined 100 dollars and leaving town with Rachel Brown, the daughter of a reverend, after the adjournment of his trial.

ANSWER: ***Inherit the Wind***

[10] *Inherit the Wind* is a dramatization of this event, which is also covered in fantasy writer L. Sprague de Camp's (ell sprayg duh camp's) book *The Great Monkey Trial*.

ANSWER: **Scopes** Monkey Trial

[10] This "sage of Baltimore" covered the Monkey Trial. He described William Jennings Bryan during the trial as someone who can "never be the peasants' President" but might become the "peasants' Pope."

ANSWER: Herbert Louis **Mencken** [or H. L. **Mencken**]

<Jose, Literature - American>

16. Unusually, the Kerr metric allows for a ring-shaped example of these things. For 10 points each:

[10] Name these points at which the strength of gravity diverges to infinity. It is theorized that there might exist "naked" examples of them, which lack an event horizon.

ANSWER: gravitational **singularity** [accept naked **singularities**; do not accept or prompt on "black hole"]

[10] A gravitational singularity is found at the center of these objects, which light cannot escape.

ANSWER: **black hole**

[10] This statement, put forth by Roger Penrose, states that no naked singularities exist, with the exception of the original singularity present prior to the Big Bang.

ANSWER: weak **cosmic censorship** hypothesis [or **cosmic censorship** conjecture]

<Busse, Science - Physics>

17. Jean-Baptiste Arban (**ar-BAWN**) wrote 14 "characteristic studies" for the penultimate section of his pedagogical "Method" for this instrument. For 10 points each:

[10] Name this brass instrument played by Sergei Nakariakov (**na-KAR-ya-KOFF**) and Maurice André. Its first fully chromatic version was developed by Anton Weidinger (**VYE-ding-er**).

ANSWER: **trumpet** [accept **cornet**]

[10] The Arban method ends with 12 pieces of this type that are popular showpieces for trumpet players.

Vaughan Williams wrote one of these pieces on a theme by Thomas Tallis.

ANSWER: **fantasias** [or **fantasy**; accept ***Fantasia on a Theme by Thomas Tallis***]

[10] The tenth of Arban's fantasias is based on a "favorite theme" by this composer, who wrote the "concert waltz" *Invitation to the Dance*. He wrote two clarinet concerti for Heinrich Baermann and used leitmotifs in his opera *Der Freischütz* (**FRY-shoots**).

ANSWER: Carl Maria von **Weber** (**VAY-bur**)

<Minarik, Arts - Music>

18. Answer the following about Meher Baba, a popular 20th-century Indian religious leader, for 10 points each.

[10] Baba claimed to be the incarnation of a specific god-realized soul, or Perfect Master, with this name. In Hinduism, this term refers to an the incarnation of a deity, such as Krishna for Vishnu.

ANSWER: **avatar**

[10] In North Carolina, Baba founded a group named for this sect "Reoriented." The Turkish Mevlevi order of this sect uses dance as a form of *dhikr* (**thicker**), or remembrance of God.

ANSWER: **Sufism**

[10] Followers of Baba engage in this action on July 10th in honor of the 44 years he spent performing it. This action is called *mauna* in Hinduism, and a common misconception holds that Trappists are mandated to perform it.

ANSWER: vows of **silence** [accept obvious equivalents of **not talking**]

<Brownstein, RMP - Other Religion>

19. This action's codename is shared with an Indian counter-offensive in the Kargil War. For 10 points each:

[10] Name this 1961 military operation in which territories such as Diu and Daman were seized.

ANSWER: Invasion of **Goa** [or Annexation of **Goa**; or Liberation of **Goa**; or Operation **Vijay** or anything involving India gaining control of **Goa** or **Portuguese India**]

[10] Operation Vijay was launched by this first Indian prime minister, who may have been motivated to distract the nation from the 12,000 square miles of territory that India had recently lost to China in the Himalayas.

ANSWER: Jawaharlal **Nehru** [or Pandit **Nehru**]

[10] Nehru was a founding member of this group of states that sought to not take a side during the Cold War. This group was formally founded at a 1961 meeting in Belgrade.

ANSWER: **Non-Aligned** Movement [or **NAM**]

<Bentley, History - World>

20. This novel presents a proverbial paradox in stating "truth becomes fiction when the fiction's true." For 10 points each:

[10] Name this Cao Xueqin (**tsao shway-cheen**) novel which quotes the proverb "when the tree falls, the monkeys scatter" in reference to the declining fortunes of the Jia family.

ANSWER: ***Dream of the Red Chamber*** [or *A Dream of Red Mansions* or ***Hóng lóu mèng*** or *The Story of the Stone* or ***Records of the Stone*** or ***Shítóu jì***]

[10] Many Chinese folk tales and proverbs have been passed down through a literary form referred to in English as the "Beijing" variety of this artistic genre. Like oratorios and cantatas, these works use a text called a *libretto*.

ANSWER: **opera** [accept Beijing **opera** or Peking **opera**]

[10] Proverbs and witty sayings abound throughout this novel framed around a story from *The Water Margin* in which Wu Song kills his brother's murderous widow. Olympia Press published a controversial, incomplete translation of this erotic novel in 1958.

ANSWER: ***The Golden Lotus*** [or *The Plum in the Golden Vase* or ***Jin Ping Mei***]

<Alston, Literature - World>

21. John Williamson coined the term "Washington Consensus" to describe the neoliberal economic reforms that largely replaced a development strategy that uses subsidies and these measures. For 10 points each:

[10] The strategy of "import substitution industrialization" partly relies on what kind of law that "protects" nascent industries by imposing a tax on imports?

ANSWER: **tariffs**

[10] The ISI strategy was based in part on Hans Singer and Raúl Prebisch's hypothesis that the price for goods of this general type declines relative to the price of manufactured goods over time. Generally speaking, these kinds of goods are split into "soft" and "hard" subcategories.

ANSWER: primary **commodities** [or primary **commodity**; accept **raw materials** or **natural resources**; prompt on **materials** or **resources**] ("Soft" commodities are grown, while "hard" commodities are mined.)

[10] Singer and Prebisch's work gave rise to this economic "theory," which states that resources flow from the global "periphery" to the global "core," enriching the latter at the expense of the former.

ANSWER: **dependency** theory

<Rosenberg, Social Science - Economics>



