



NASAT 2016  
Round 10

1. Because of two different words used in this book, Rashi argues that one character is a pregnant female brought in to make a man uncomfortable and pray. The psalm of praise in this book's second chapter is accepted to be a later addition to the source material. Its reference to "a hundred and twenty thousand people who do not know their right hand from their left" may be an insult to a certain city's population. Jerome's translation of this book notably opts for the word "ivy" in place of the usual "gourd" for the quickly sprouting plant of the final chapter, which is eaten by a worm sent by God. The title character wants to go to Tarshish to avoid going to Nineveh. For 10 points, what Old Testament book is about a prophet who is swallowed by a "great fish"?

ANSWER: **Jonah** [or **Yonah**] <Marvin>

2. In the fourth movement of this symphony, the loud transition from the development to the recapitulation is interrupted by a quiet reprisal of a theme from the scherzo (SCARE-tsoh). During its first movement's recapitulation, a solo oboe plays a short cadenza. This symphony's definitive recording was made in 1974 by Carlos Kleiber. The *attacca* transition between this symphony's third and fourth movements marks a dramatic shift from C minor to a triumphant C major. Premiered at the same concert as its composer's next symphony, this piece ends with 29 consecutive bars of C major chords. For 10 points, name this Ludwig van Beethoven symphony whose opening "short, short, short, LONG" motif has been compared to "fate knocking at the door".

ANSWER: **Beethoven's Fifth** Symphony [or Ludwig van **Beethoven's** Symphony No. **5**; or **Beethoven's Symphony No. 5** in C minor; or **Fifth** Symphony after "Beethoven" is read; or Symphony No. **5** after "Beethoven" is read; or **Beethoven Opus 67**; or **Opus 67** after "Beethoven" is read] <Kim>

3. This character jumps into a river but begins to drown, requiring a comrade to save him "as Aeneas" once saved Anchises. That former friend of this character remembers him shaking due to epilepsy while in Spain. He insists he is "as constant as the northern star" while refusing to cancel the banishment of Cimber. This man's wife notes that "when beggars die, there are no comets seen", causing him to exclaim that "cowards die many times before their deaths". He last appears as an "evil spirit" telling his former friend he will see him soon. This man notes that a future enemy has a "lean and hungry look" and dismisses a soothsayer's warning. For 10 points, name this title character of a William Shakespeare play, who cries "Et tu, Brute?" when he is stabbed on the Ides of March.

ANSWER: Gaius Julius **Caesar** [or Gaius **Julius** Caesar] <Cheyne>

4. This scientist proposed that big  $G$  varies with the matter density of the universe in a theory of gravity named for him and Jayant Narlikar. This physicist was the last author, alphabetically, on a paper that fully explicated the r-process and s-process. That paper on which this person was the last author, alphabetically, originated the theory of stellar nucleosynthesis, and it was co-authored by Margaret Burbidge, Geoffrey Burbidge, and William Fowler—the B-squared F of a famous four-author paper. Though he rejected the theory, he coined the term for an alternative model to steady-state cosmology that emphasizes all matter originated from a naked singularity. For 10 points, name this astronomer who coined the term "Big Bang".

ANSWER: Fred **Hoyle** <Jose>

5. This industry was supported by a lesbian group called LAPC. Newspaper workers refused to print a doctored photo showing a leader of this industry apparently making a Nazi salute. Workers in this industry were convicted for using baseball bats to attack Michael Fletcher, while other workers in it dropped a concrete post onto David Wilkie's taxi, killing him. Neil Kinnock accused hecklers at Stoke-on-Trent of "living like parasites" on this industry, and the Prime Minister said its workers were the "enemy within". Arthur Scargill led a controversial union for this industry called NUM, which was severely weakened in 1985 while opposing the Thatcher ministry. For 10 points, what British industry went on strike in the mid 1980s to protest pit closures?

ANSWER: coal **mining** [or coal **miners**] <Cheyne>

6. This thinker used the example of a man forgetting the name of his friend Addison Sims, arguing he will not remember until they engage in old activities again. James McConnell inaccurately claimed this man and his future wife measured their physiological responses during sex. While working for J. Walter Thompson, he used psychological theories to help Maxwell House popularize the term "coffee break". An image from one of this man's studies shows Santa Claus looking at a horrified person. This man married his assistant Rosaline Rayner, who helped him in an experiment where they clanged an iron rod to link fear with certain animals. He is best known for making a small boy terrified of a white rat. For 10 points, what behaviorist psychologist conducted the "Little Albert" experiment?

ANSWER: John Broadus **Watson** <Cheyne>

7. During the reign of this dynasty, the Salahiyya pushed for Al-Adil to become *atabeg* after the death of al-Aziz Uthman. The wife of one of this dynasty's final members was killed by a mob of clog-wielding harem women, thus ending her brief reign as Sultana Shajar al-Durr. Roughly ninety percent of the army led by this dynasty's most famous king was killed at the Battle of Montgisard (mon-jee-SAR). A king of this dynasty besieged Tiberias two days before his most prominent victory, after which he personally decapitated the captive Raynald of Chatillon (shah-tee-YAWN). This dynasty was named for the father of its most famous member, a Kurd who displaced the Fatimids and won the Battle of Hattin against the Crusader states. For 10 points, name this Sunni Muslim dynasty founded by Saladin.

ANSWER: **Ayyubid** caliphate <Sundberg>

8. Immanuel Velikovsky claimed that the namesake of one of these events, Ogyges, was the same person as the Amalekite king Agag. One of these events was halted when the Xanthian women caused Bellerophon to flee by lifting their skirts at him. After one of these events, two people traveled from Mount Parnassus to the oracle of Themis, where Hermes told them to cover their heads. In some accounts, one of these events followed Lycaon's transformation into a wolf for trying to feed human flesh to Zeus. After one of them, a couple were told to cast the bones of their mother behind them, which they accomplished by throwing stones that turned into people. For 10 points, Deucalion and Pyrrha survived what type of natural disaster by building an ark?

ANSWER: **floods** <Brownstein>

9. This character makes a lambrequin to hang on the mantel to impress a man who doesn't even notice it. She earns fifty dollars per week sewing collars and cuffs at a factory. This character is ditched by her date for a "woman of brilliance and audacity" named Nellie. This character's mother screams, "I'll fergive her!" at the end of the short novel in which she appears. Earlier, she is accused by her mother of having "gone teh d' devil" after leaving home for three weeks to stay with the bartender Pete. After being scorned by her brother Jimmie, this character is forced to become a prostitute and is murdered. For 10 points, name this title character of a novel by Stephen Crane, a "Girl of the Streets".

ANSWER: **Maggie** Johnson [or Maggie **Johnson**] <Collins>

10. The termini of these structures can sometimes have frayed motifs or Schellman loops. The turn flips that occur in the T-to-R transition are located in the E and F examples of these structures. *α* consists of four of them in a bundle. End views of these structures are squarish, unlike the triangular appearance of similar three-ten structures. These structures are typically clustered around negative 60-degree  $\phi$  and negative 45-degree  $\psi$  angles on a Ramachandran plot. Hydrogen bonds form in an *i*-plus-four to *i* pattern in them. They can exist in longer stretches by forming coiled-coils. In nature, the screw sense of these structures is almost always right-handed, and they average about 3.6 residues per full turn. For 10 points, name these protein secondary structures contrasted with beta strands.

ANSWER: **alpha helix** [or **coiled-coils**; prompt on **helix**] <Smart>

11. It's not Germany, but a poem by W. H. Auden describes a city in this country as a place "where life is evil now" and where "war is simple like a monument". Auden's travels in this country with Christopher Isherwood are described in a collection commonly published as "Sonnets from" this country. A novel set in this country features a mentally disabled girl nicknamed "the poor fool" whose mother is disappointed when two pearls are taken from her by her husband. This country is the home of a fictional land-obsessed peasant, his concubine Lotus Flower, and his wife O-Lan. For 10 points, name this country, the setting of W. H. Auden's *In Time of War* and Pearl Buck's *The Good Earth*.

ANSWER: **China** [or **Zhongguo**; or the Republic of **China**] <Clarke>

12. Donation of the nitrogen lone pair into the phosphorus-chlorine sigma-star orbital causes phosphazene trimers to have this property. Molecules with this property must belong to the point groups D<sub>n</sub>-h or C<sub>n</sub>-h. The rigidity of adamantyl carbo-cations prevents them from having this property. To avoid the unfavorable energy of anti-aromaticity, cyclo-octa-tetra-ene lacks it. SN1 reactions give perfect racemic mixtures if the intermediates have this property. Transition metal complexes with it have ligand field splittings around 1.2 times larger than octahedral complexes. Cyclic compounds with this property and 4n plus 2 electrons are aromatic according to Hückel's rule. The nitrate anion and boron trifluoride are trigonal examples of substances with this property. For 10 points, name this property where atoms in a molecule lie in a flat surface.

ANSWER: **planar** [or **planarity**; or being **flat**; or square **planar**; or trigonal **planar**] <MacAulay>

13. This country has a forty-million-carat pipe of kimberlite at Catoca and also mines the billion-ton hematite deposit around Kassinga. This country, which is dominated by the Ovimbundu and Kimbundu ethnic groups, is home to the only woman billionaire in Africa, the accused corruption-monger Isabel dos Santos. This country is the second-largest oil producer in Africa after Nigeria, and is fighting a low-level war against the home of much of its oil, its secessionist exclave of Cabinda. It formerly underwent a long civil war between MPLA and UNITA. For 10 points, name this Portuguese-speaking country on southern Africa's Atlantic coast.

ANSWER: **Angola** [Republic of **Angola**; or Republica de **Angola**] <Weiner>

14. The far background of this painting contains a faint upside-down inscription possibly reading the Hebrew word for "God Almighty", "Shaddai". A stool, paint box, and signed portfolio lie next to an umbrella that juts across the diagonal of this painting. The artist of this painting included a tiny self-portrait of himself in a brown hat and red coat sitting at some rocks with his easel. This standalone painting was completed as a respite from a series commissioned by Luman Reed. This painting features a blasted tree threatened by storm clouds in its left foreground and cultivated land in the lower right background. For 10 points, name this panoramic landscape, a view of a bend in the Connecticut River from Mount Holyoke by Thomas Cole.

ANSWER: *The **Oxbow*** [or ***View from Mount Holyoke, Northampton, Massachusetts, after a Thunderstorm*** until it is read] <Smart>

15. This man earned the title "Corlaer" by negotiating the Covenant Chain treaties with the Iroquois. While Governor of Virginia, this man was opposed by William & Mary founder James Blair. After being confined with Joseph Dudley on Castle Island, this man allegedly escaped while dressed in women's clothing. The Fundamental Orders of Connecticut were hidden in an oak tree from this man who was succeeded by Simon Bradstreet in one post. His military leader Francis Nicholson was targeted by Leisler's Rebellion and he himself was overthrown in the wake of the Glorious Revolution. For 10 points, name this wildly unpopular governor of a colony created to enforce the Navigation Acts, the Dominion of New England.

ANSWER: Edmund **Andros** <Mehr>

16. A fire god enlists a hero's usage of this skill in order to burn down a forest being subject to a torrent of rain. A low-born youth masters this talent by practicing in front of a statue of a famed instructor who once refused to teach him this skill. This ability is used to subvert a fatal curse and fling the head of Jayadratha directly into his father's lap. Ekalavya and Karna are refused education in this ability by Drona, though the latter masters it using a tool called Vijaya. The middle Pandava brother is given the hand of Draupadi for his mastery of this ability. For 10 points, name this ability that Arjuna uses to strike the eye of a golden fish while looking only at its reflection in a pool of water in the *Mahabharata*.  
ANSWER: **archery** [or using a **bow**; or shooting an **arrow**; or obvious equivalents] <Kim>

17. A character created by this author plays an imaginary violoncello with his right hand when he becomes angry. In a novel by this man, a caricature of the Times called The Jupiter launches a smear campaign under editor Tom Towers. This author created the de Courcy family, a member of which is courted by Adolphus Crosbie in *The Small House at Allington*. In another of his novels, Mrs. Proudie blocks the reappointment of the director of Hiram's Hospital. That novel of his begins with Archdeacon Grantly not succeeding his father as a bishop. John Bold attacks the 800 pound income of Septimus Harding despite falling in love with Septimus's daughter, Eleanor, in his novel *The Warden*. For 10 points, name this Victorian novelist who included *Barchester Towers* in his *Barsetshire Chronicles*.  
ANSWER: Anthony **Trollope** (trawl-up) <Droge>

18. In the late 1990s, Neil Robertson and Paul Seymour gave another proof of this result that was streamlined since they only had to show  $D$ -reducibility and  $C$ -reducibility. In the 19th century, Alfred Kempe gave a flawed proof of this result, though his work using his namesake Kempe chains were also used in the first correct proof of it. This result relied on the method of discharging developed by Heinrich Heesch. A computer at the University of Illinois took thousands of hours to check through 1,476 cases of graphs devised by Kenneth Appel and Wolfgang Haken as part of the first correct proof for this theorem. For 10 points, name this theorem that states that all regions of a planar map can be assigned a hue using at most the namesake number of hues.  
ANSWER: **four-color** theorem <Jose>

19. This city was where Tertullian's defense of Christianity, *Apologeticus*, was written. The short-lived "Colonia Junonia" was basically built at this city's site. Marcellinus led a 411 AD conference here which ruled that Donatists were heretics. This city violated a treaty by going to war with the forces of Masinissa, and it massacred rebels at the Battle of "The Saw". After seeing it burn, an opposing commander cried and mused that "a day will come when sacred Troy shall perish". This city put down an uprising in the Mercenary War. Boniface VIII, after destroying Palestrina, claimed this older city had also been sown with salt after its destruction. Cato the Elder closed many speeches by saying this city must be destroyed. For 10 points, what city was destroyed after the Third Punic War?  
ANSWER: **Carthage** <Cheyne>

20. In an opera about this subject, trumpets use five registers, labelled "clarino" through "basso", to play a fanfare in the opening "Toccata". A ballet scene set in Elysium for strings and two solo flutes is found in Act II of an opera on this subject written to counter the excesses of *opera seria* under Pietro Metastasio. A satirical operetta about this tale rewrites its central couple to hate each other instead. A "Dance of the Blessed Spirits" is found in Gluck's opera about this myth. In another opera about this myth, Jupiter leads the gods in a frenzied "Galop Infernal", or the can-can, after the title character turns around before having exited Hades. For 10 points, name this Greek myth whose central bard is *in the Underworld* in a Jacques Offenbach operetta.

ANSWER: **Orpheus** and Eurydice [or the **Orpheus** myth] <Kim>

21. A poem by this author apostrophizes a building, saying, "no pleasant talk shall e'er be told, nor things recounted done of old", and contrasts it with a house "purchased and paid for, too, by Him who hath enough to do". That poem by this author concludes, "The world no longer let me love, my hope and treasure lie above". This poet claimed to value a lover "more than whole mines of gold, or all the riches that the East doth hold". She wrote, "If ever two were one, then surely we", in that poem addressed to her husband. She also described the destruction of her house in a poem about a 1666 fire. For 10 points, name this author of the collection *The Tenth Muse Lately Sprung Up in America* and wife of a governor of the Massachusetts Bay Colony.

ANSWER: Anne **Bradstreet** <Droge>

1. The author of this text befriends a boy named Edward as part of a scheme to get closer to a woman. For 10 points each:

[10] In what volume of a larger text does the author, Johannes, become obsessed with a woman ten years younger than him named Cordelia? He pursues her because he finds it pleasurable and interesting.

ANSWER: "The **Seducer's Diary**" [or "**Diary of a Seducer**"; or obvious equivalents having both **seducer** and **diary**; prompt on *Either/Or* or *Enten-Eller*]

[10] "The Seducer's Diary" appears in *Either/Or*, a book by this Danish philosopher who also wrote *Fear and Trembling*. You must give his real name.

ANSWER: Søren **Kierkegaard** [or Søren Aabye **Kierkegaard**; do not accept any other answers]

[10] A famous section of *Either/Or* describes how aesthetes constantly change what they are doing in order to avoid boredom, which Kierkegaard compares to this pastoral activity.

ANSWER: crop **rotation** <Cheyne>

2. This law created a system that utilized many of the proposals found in the Pershing Map from the 1920s. For 10 points each:

[10] Name this 1956 law meant to improve American transportation. The president who signed it said he was inspired by European systems he saw during World War II and believed it would have major national defense implications.

ANSWER: **Interstate Highway Act** [or **Federal Aid Highway Act** of 1956; or **National Interstate and Defense Highways Act**]

[10] This President signed the Interstate Highway Act and had been Supreme Allied Commander of Allied Forces in Europe during World War II.

ANSWER: Dwight David "Ike" **Eisenhower**

[10] Secretary of Defense Charles Wilson helped plan out the Interstate Highway System, but is best known for saying during his confirmation hearings that for years he thought what was good for the country was also good for this private company, his previous employer.

ANSWER: **General Motors** [or **GM**] <Cheyne>

3. Samuel Beckett's one-act drama *All That Fall* was originally written for this medium. For 10 points each:

[10] Name this literary medium that the 1954 play *Under Milk Wood* was also originally written for.

ANSWER: **radio** drama [or **BBC Radio**]

[10] This Welsh poet of "And death shall have no dominion" and "Do not go gentle into that good night" wrote *Under Milk Wood*.

ANSWER: Dylan **Thomas**

[10] This playwright got his start writing BBC Radio dramas such as *The Last of the Wine* and *The Drunken Sailor*. His best known play was originally written for the radio and features the Common Man observing a historical figure executed by Henry VIII.

ANSWER: Robert **Bolt** <Cheyne>

4. Suckling joeys stimulate the facultative form of this phenomenon in wallaby embryos. For 10 points each:

[10] Name this process in which unfavorable conditions induce dormancy in zygotes, which remain unimplanted under cell cycle arrest until a stimulus such as sibling weaning reactivates them.

ANSWER: **diapause** [or embryonic **diapause**]

[10] In marsupials, the suckling of first-year offspring delays implantation of second-year embryos by triggering the release of this hormone from the anterior pituitary. This hormone stimulates production of milk, which is then released through oxytocin signaling.

ANSWER: **prolactin**

[10] Embryonic diapause is primarily terminated by diminished melatonin production due to increases in the length of this time period, which for tammar wallabies would be longest on December 22.

ANSWER: **daytime** [or obvious equivalents] <Smart>

5. God appears in a circle, surrounded by cherubim, above this scene in a painting by Pietro Perugino located in Fano. For 10 points each:

[10] Name this scene, frequently painted by Fra Angelico, depicting Gabriel telling Mary that she will conceive Jesus.

ANSWER: **Annunciation** to the Blessed Virgin Mary [or **Annunciation** of Our Lady; or the **Annunciation** of the Lord; or obvious equivalents]

[10] This Florence-born artist painted a lunette version of the *Annunciation* as a pendant to his *Seven Saints*. His masterpieces include a monumental single panel depiction of the *Coronation of the Virgin* at the Uffizi (oof-FEET-see) and his series in Spoleto Cathedral depicting the *Life of the Virgin*, left unfinished at his death.

ANSWER: Fra Filippo **Lippi** [or Fra Lippo **Lippi**; do not accept "Filippino Lippi"]

[10] An *Annunciation* by Lippi in Rome unusually represents these people on the same scale as the religious figures. In religious scenes throughout the Renaissance, these people were painted kneeling, sometimes alongside their families.

ANSWER: **donors** [or the people who **commissioned** the paintings; or the people who **paid** for the paintings; or the artist's **patrons**; or word forms; or obvious equivalents] <Gupta>

6. Answer the following related to a truly rad compound: hexafluoride. For 10 points each:

[10] This element's hexafluoride is the most counterion for lithium in battery electrolytes. BMIM and this element's hexafluoride comprise a commonly-studied ionic liquid.

ANSWER: **phosphorus** [or **P**]

[10] Autoionization of hydrogen fluoride yields the adduct antimony hexafluoride in the strongest example of this type of substance. These substances have H-zero values less than negative 12.

ANSWER: **superacids** [prompt on **acids**]

[10] This element's hexafluoride is prepared from yellow cake and sublimates at 56 degrees Celsius. It is used as a fuel in nuclear reactors.

ANSWER: **uranium** [or **U**] <MacAulay>



7. In talking about these objects, a man said "I guarantee you there is no problem". For 10 points each:  
[10] Name these objects, labeled small by Marco Rubio during a ludicrous moment in the 2016 primaries. The possessor of these objects implicitly compared them to his penis.

ANSWER: Donald John **Trump's hands** [prompt on partial answers]

[10] Marco Rubio himself hurt his campaign in an earlier debate when he constantly repeated a line stating "let's dispel with this fiction" that this other politician "doesn't know what he's doing".

ANSWER: Barack **Obama** [or Barack Hussein **Obama II**]

[10] Earlier in the Rubio campaign, this journalist claimed Rubio was the candidate the Democrats "fear the most". This *Washington Post* columnist previously coined the term "Reagan Doctrine".

ANSWER: Charles **Krauthammer** <Cheyne>

8. The South Fork Fishing and Hunting Club was partially blamed for this disaster because of their failure to properly maintain a dam. For 10 points each:

[10] Name this May 31, 1889, disaster in Pennsylvania that killed over 2,000 people when the South Fork Dam broke.

ANSWER: **Johnstown** Flood

[10] One of the first major relief efforts led by this organization was in response to the Johnstown Flood. The American wing of this organization was founded in 1881 by Clara Barton.

ANSWER: International **Red Cross** and Red Crescent Movement [or American **Red Cross**; or American National **Red Cross**]

[10] This future Cabinet member defended the South Fork Fishing and Hunting Club in lawsuits blaming it for the dam's failure. He's best known for serving as William Howard Taft's pro-dollar diplomacy Secretary of State.

ANSWER: Philander Chase **Knox** <Cheyne>

9. The title character of this work is accompanied by the angel "Genius" and is told "you yourself are a great builder: build yourself a new paradise". For 10 points each:

[10] Name this comedic dialogue in which St. Peter argues with the title character over sins like simony and pederasty, ultimately barring him from Paradise.

ANSWER: **Julius Exklus** *e Coelis* [or **Julius Excluded** *from Heaven*]

[10] This work by the author of *Julius Exklus* is a satire narrated by a character who is born of the god of wealth, Plutus, and is nursed by the nymphs Inebriation and Ignorance. It was written while its Dutch humanist author was living on the estate of Sir Thomas More.

ANSWER: **In Praise of Folly** [or *The Praise of Folly*; or **Morias Enkomion**]

[10] *Julius Exklus* and *In Praise of Folly* were written by this scholar who also wrote *The Handbook of a Christian Knight*.

ANSWER: Desiderius **Erasmus** <Mehr>

10. The main theme of this piece is adapted from a rondeau found in Henry Purcell's incidental music to the play *Abdelazer*. For 10 points each:

[10] Name this Benjamin Britten piece featuring a set of variations for each group of instruments in the title ensemble. It was originally written for an educational film targeted at children.

ANSWER: The Young Person's Guide to the Orchestra [or The Young Person's Guide to the Orchestra: Variations and Fugue on a Theme of Purcell]

[10] The finale of *The Young Person's Guide to the Orchestra* begins with a fugue introduced by this instrument. It plays a solo in the middle section of John Philip Sousa's *The Stars and Stripes Forever*.

ANSWER: **piccolo**

[10] A solo piccolo plays the theme of the first movement of this suite initially written to accompany a 1934 film. A double bass introduces the theme of its second movement, a brooding Romance.

ANSWER: Lieutenant Kijé [or Poruchik Kizhe] <Kim>

11. People in Druze who can recall having this action happen to them are called "Nateqs". For 10 points each:

[10] What action is central to most of the Indian religions, such as Hinduism and Buddhism, and is the idea that after biological death, humans begin new lives in different bodies?

ANSWER: **reincarnation**

[10] Many Indian religions believe in this concept of rebirth and an endless cycle. It is a Sanskrit word meaning "wandering", and escape from it is known as either moksha or nirvana.

ANSWER: **samsara**

[10] Samsara is defined as being part of the cycle of rebirth within the temporal or illusory world, which is given this Sanskrit word. Sometimes linked with magic, this concept is the perceived reality that contrasts with Brahman, the ultimate, unchanging consciousness.

ANSWER: **Maya** <Cheyne>

12. This approach would consider the question "What's the chance there was life on Mars?" meaningless. For 10 points each:

[10] Name this approach that holds that statements about chance are only valid when a number of trials  $n$  is large. It does not extend to cover certainty about statements that aren't controlled.

ANSWER: **frequentism** [or **frequentist**]

[10] The frequentist approach is one philosophical approach to this branch of mathematics, which is often paired with statistics. As a quantity, it is the likelihood that an event will occur.

ANSWER: **probability**

[10] Statistical analysis of the statement "What's the chance there was life on Mars?" might decompose the question into a null hypothesis, holding that "There was life on Mars", and this other hypothesis, holding that "There was never life on Mars". Rejecting this hypothesis wrongly is a type-two error.

ANSWER: **alternative** hypothesis [or **maintained** hypothesis; or **research** hypothesis] <Jose>

13. This book is subtitled "a rogue sociologist takes to the streets". For 10 points each:

[10] Name this 2008 book by Sudhir Venkatesh that chronicles its author's first-hand observations of the poor and street criminals in Chicago's Robert Taylor Homes. He particularly discusses a leader of the Black Kings named JT.

ANSWER: ***Gang Leader for a Day: A Rogue Sociologist Takes to the Streets***

[10] Venkatesh worked with Steven Levitt to track the working habits of these types of workers in Chicago, noting that the best paid ones could make 35 dollars a hour. 95 percent of female workers of this sort have been attacked, and this profession is illegal in all states but Nevada.

ANSWER: **prostitutes** [or **sex** workers; or **hookers**; or obvious equivalents]

[10] Levitt and John J. Donohue have controversially argued that the drop of crime in the United States in the late 1980s and early 1990s is due to this factor, a central point in *Freakonomics*.

ANSWER: legalized **abortion** [prompt on **birth control**] <Cheyne>

14. According to Enoch Powell, reading this politician's lengthy six-volume autobiography was like "chewing on cardboard". For 10 points each:

[10] Name this prime minister who led his party to victory using the slogan "You've never had it so good". He sacked many of his ministers in the Night of the Long Knives, and his Secretary of State for War had an affair with a teenage model.

ANSWER: Harold **Macmillan** [or Maurice Harold **Macmillan**; or the Earl of **Stockton**]

[10] Macmillan was the leader of this political party, whose current leader is David Cameron.

ANSWER: **Conservative** and Unionist Party [or **Tories**]

[10] Despite this newspaper's support for the Labour Party, it wished Macmillan "good luck" for his second term on its front page. Once owned by Robert Maxwell, it asked in 2004 after George W. Bush's re-election how 59 million Americans could be so dumb.

ANSWER: *Daily **Mirror*** [or *Sunday **Mirror***] <Cheyne>

15. This story's protagonist struggles to find lines to sing from an opera and signs a circle instead of his name to save himself from embarrassment. For 10 points each:

[10] Name this story whose title character experiences many "moral victories" and is executed after failing to join a revolution.

ANSWER: "The **True Story of Ah-Q**"

[10] This author included "The True Story of Ah-Q" in his collection *Call to Arms*, which features his story about a man paranoid about being cannibalized, "A Madman's Diary". He gave a lecture to a women's college about the end of *A Doll's House* titled "What Happens After Nora Leaves Home?".

ANSWER: **Lu** Xun (shyoon) [or **Zhou** Shuren]

[10] Lu Xun contributed to the 20th-century literature of this country, where he wrote about the Xinhai Revolution and contributed to the May Fourth Movement.

ANSWER: People's Republic of **China** <Mehr>

16. This sequence is parodied at the beginning of the film *Jackie Brown*, which uses the song "Across 110th Street" instead. For 10 points each:

[10] Identify this cinematic sequence that takes place at Los Angeles International Airport. Aside from a series of PA announcements and a background music track, it is silent and shows a man to the right of the frame, standing on a moving sidewalk.

ANSWER: the **beginning** of *The Graduate* [or the **credits** of *The Graduate*; or anything that suggests it is the **beginning** of *The Graduate*; or **Benjamin Braddock's return** in *The Graduate*; prompt on "The Sound of Silence" scene in *The Graduate*]

[10] Simon & Garfunkel's "The Sound of Silence" is used as a framing device in *The Graduate*, as it also appears during the ending bus ride, after the protagonist Ben Braddock interrupts one of these events by banging on the glass and yelling.

ANSWER: a **wedding** [or obvious equivalents like **marriage**]

[10] Simon & Garfunkel composed an original song for the film to represent this Anne Bancroft-played older woman. Ben dumbly asks this woman, "you're trying to seduce me, aren't you?".

ANSWER: Mrs. **Robinson** <Cheyne>

17. The subject of this poem is described as a "bronzed, lank man" who "cannot sleep upon his hillside now". For 10 points each:

[10] Name this Vachel Lindsay (VAY-chel LIN-zee) poem about a man who feels that his time on earth was in vain and that his heart is broken because "kings must murder still".

ANSWER: "**Abraham Lincoln Walks at Midnight**"

[10] Vachel Lindsay claimed to have discovered this other poet working as a busboy at a restaurant. This Harlem Renaissance poet wrote "Harlem" and "The Weary Blues".

ANSWER: Langston **Hughes**

[10] The first and last portions of Lindsay's poem "The Congo" end with triple repetitions of this line, a warning about the god of the Congo.

ANSWER: **Mumbo-Jumbo will hoo-doo you** <Droge>

18. This phenomenon is typically described as the spontaneous symmetry breaking of a gauge symmetry, below the temperature at which the electromagnetic and weak forces are unified. For 10 points each:

[10] What mechanism imparts mass to the gauge bosons and results in the creation of a namesake boson?

ANSWER: **Higgs** mechanism

[10] When the electroweak interaction undergoes spontaneous symmetry breaking, the Higgs vacuum expectation value couples to what three bosons, giving them mass?

ANSWER: **W plus**, **W minus**, and **Z** bosons [accept in any order; prompt on **W** and **Z** bosons]

[10] The graph of the Higgs potential is named after this object because a potential of this shape generates the spontaneous symmetry breaking suspected of the Higgs mechanism.

ANSWER: **Mexican hat** [or obvious equivalents, such as **sombrero**] <Voight>

19. At the start of this event, several Myrmidons cut off locks of hair and pile it on a corpse. For 10 points each:

[10] Name this event that takes up Book XXIII of the Iliad. During it, the Greeks compete in chariot racing, archery, wrestling, footraces, combat, and spear-throwing.

ANSWER: the **funeral games for Patroclus** [prompt on funeral games]

[10] The book ends with Achilles simply awarding first prize for spear-throwing to this leader of the Greek forces, without an actual contest. His wife Clytemnestra schemes to murder him upon his return from Troy.

ANSWER: **Agamemnon**

[10] In the only contest that hasn't yet been mentioned, Polydotes proves his ability to throw this kind of object the farthest, thereby winning a five-year supply of it.

ANSWER: a lump of pig **iron** [or a lump of **metal**] <Gupta>

20. A. J. P. Taylor described this man as "the most boring man in European history". For 10 points each:

[10] Name this diplomat and later chancellor who was eventually forced out in the wake of 1848 revolutions. He chaired an 1814 meeting with such other diplomats as Viscount Castlereagh and Talleyrand that stripped France of much recently conquered territory.

ANSWER: Klemens Wenzel von **Metternich**

[10] The Congress of Vienna, as chaired by Metternich, signed its "Final Act" just nine days before this June 1815 battle in modern-day Belgium, where Napoleon met his final defeat.

ANSWER: Battle of **Waterloo**

[10] This diplomat and scholar was part of the Prussian delegation at Vienna. This man's brother wrote the scientific treatise *Kosmos* and was famous for his explorations.

ANSWER: Wilhelm von **Humboldt** [or Friedrich Wilhelm Christian Karl Ferdinand von **Humboldt**; do not accept "Alexander von Humboldt"] <Cheyne>

21. Popular Enlightenment understanding defined this concept as justified true belief. For 10 points each:

[10] Give this concept, which the philosophical discipline of epistemology explores.

ANSWER: **knowledge**

[10] This philosopher challenged the "justified true belief" definition with his namesake problems, revitalizing epistemology with a three-page paper.

ANSWER: Edmund **Gettier** (getty-er)

[10] Gettier's first problem considers the example of whether it is really knowledge to think that the man with these things in his pocket will get a job, when the subject does not know that both applicants have these things in their pockets.

ANSWER: **coins** [or obvious equivalents] <Marvin>