1. Interdisciplinary
This country was the home of Frank Burnet, who studied immunological tolerance in humans. Novels set there include Cloudstreet and Picnic at Hanging Rock. It was the site of the Eureka Stockade Revolt in 1854, and its current Prime Minister is Kevin Rudd. It is the birthplace of Anne Geddes and Michael Hutchence. Name this country whose capital, which was planned by American architects in the early 20th Century, is Canberra.

ANSWER: Australia

2. Pyramidal Math (30 Seconds)
(Note to moderator: Foci is pronounced FO-sigh.) This number is equal to the eccentricity of an ellipse that has foci at (0,0) and (10,0) and its rightmost point at (13,0). If you flip a coin four times, it is the probability of getting either one or two heads. It also equals the log base two hundred fifty-six of thirty-two. Give this fraction equal to one-half plus one-eighth.

ANSWER: 5/8 (or 0.625)

3. World Literature
One of the characters in this book, Kamante, needs to spend time in a hospital to heal his legs when he is young. One of the incidents in the book involves a seven-year-old named Kabero accidentally shooting two boys. Much of it takes place on a six thousand acre farm that grows coffee in what is now Kenya. Name this 1937 work by the Danish author Isak Dinesen.

ANSWER: Out Of Africa

4. Current Events
(Note to moderator: The i in Corzine sounds like the I in I.) He succeeded Jon Corzine as the head of Goldman Sachs. In recent years, he helped start the Hope Now Alliance, though he may be most famous for a three-page plan he wrote earlier this year. That plan contained a controversial clause stating that his actions may not be reviewed by any court of law or any administrative agency. Though one of the dollar amounts it mentioned was over eleven trillion, it became associated with the amount of seven hundred billion dollars. Name this man who replaced John Snow in 2006 as Secretary of the Treasury.

ANSWER: (Henry ‘Hank’) Paulson(, Jr.)
5. Biology
(Note to moderator: Colchicine is pronounced KOL-chi-seen.) A few years ago, scientists thought they had found this characteristic in some Argentinian rats, but most now believe that it does not exist in healthy mammals except in a few specialized cells. It does exist in a small number of fish and other animals, but it is far more common in ferns and other plants, probably existing in the majority of angiosperms. Though it often occurs naturally, it sometimes is induced in crops by the application of colchicine cream, which disrupts meiosis. Give this term that refers to having more than two homologous sets of chromosomes.

ANSWER: Polyploid(y) (accept Tetraploid(y))

6. Music
This alto saxophonist has performed with his son Denardo on drums for the past forty years, including on his recent album Sound Grammar. His reputation took off in 1959 with the release of an album with the songs “Lonely Woman” and “Focus on Sanity”. That album, The Shape of Jazz to Come, did not have any chord changes and gave a lot of control to whichever musician was leading at the time. Name this musician who one year later released the album Free Jazz: A Collective Improvisation, on which the title track lasts thirty-seven minutes.

ANSWER: (Ornette) Coleman

7. United States History
This led to the Virginia Resolves, which in turn led to the dissolution of the House of Burgesses. Intended to pay for troops, the opposition to it was so strong that England repealed it before it had been in place for six months. It also led to the formation of the Sons of Liberty and a Congress attended by representatives of nine colonies in 1765. Name this tax that was placed on all important documents.

ANSWER: Stamp (Act or Tax) (of 1765) (prompt Duties in American Colonies Act)

8. Physics (10 Seconds)
Also known as the Harmonic Law, for our solar system it produces the constant value three times ten to the negative nineteenth seconds squared per meters cubed. It states that period squared varies directly with the cube of the length of the semimajor axis. Name this law that is listed after laws stating that orbits are in the shape of an ellipse and that equal areas are swept out during equal times.

ANSWER: Kepler’s 3rd Law (prompt partial answers)
9. Vocabulary
This four-letter word comes from Greek and used to refer to a competition in which prizes were awarded. It eventually gained literary usage, referring to a verbal dispute between characters in a drama, and it is now the root word in several literary terms. Give this root word that is used both in the word for the main character of a work and in the word for that character’s adversary.

ANSWER: Agon(s)

10. Religion/Mythology
At the end of our current age, this god will appear riding a white horse and destroy Kali. This blue god is usually shown holding a conch, disk, club, and lotus, which is easy for him to do since he has four arms. He is often placed in a group of three gods that also includes Brahma and Shiva. Name this Hindu god with many avatars.

ANSWER: Vishnu (prompt Narayana)

11. Pop Culture
The opening of this movie shows the main character lying on the sidewalk and playing with a wind-up monkey. He is taken to a police station, where the main female character is upset about her relationship with her father. He offers his jacket to John Crawford, whose nickname is Plato and who was portrayed by Sal Mineo. The plot revolves around chickie runs, in which two teenagers drive towards a high cliff until one of them chickens out. Name this 1955 film directed by Nicholas Ray that starred Natalie Wood and James Dean.

ANSWER: Rebel Without A Cause

12. Geometry/Trigonometry (30 Seconds)
Ignore units. Find the perimeter of a hexagon if it is inscribed inside a circle that has a circumference of ten pi.

ANSWER: 30

13. Nonfiction
(Note to moderator: Bernstein is pronounced BERN-steen.) In 1987, he finished a work about the CIA titled Veil. He is still distrusted by some Chicagoans because of his book Wired: The Short Life and Fast Times of John Belushi. He has spent a lot of time interviewing President Bush and has completed three books on the Bush Presidency, the most recent being State of Denial. Name this writer who still works for the Washington Post, where he gained fame working with Carl Bernstein.

ANSWER: (Robert “Bob”) Woodward
14. British Literature
The title character of this novel is described with the words, “Handsome, clever, and rich, with a comfortable home and happy disposition, seemed to unite some of the best blessings of existence; and had lived nearly twenty-one years in the world with very little to distress or vex her.” She is loved by a very attractive man named Frank Churchill and a generally reasonable man named Mr. Knightley. Name this work by Jane Austen.

ANSWER: Emma

15. Geography/Earth Science/Astronomy
This province includes Williston Lake, which used to be the largest man-made lake in the world. Prince George is its unofficial northern capital, and one of its larger southern towns is Abbotsford. The capital contains famous flower gardens, and its largest city is preparing to host the Winter Olympics. Name this province that contains Vancouver on Canada’s Pacific Coast.

ANSWER: British Columbia

16. Algebra (30 Seconds)
If $z$ varies directly with $x$ squared and inversely with $y$, and $z=10$ when $x=2$ and $y=3$, find the value of $z$ when $x=6$ and $y=1$.

ANSWER: 270

17. Art/Architecture
A work by him at the National Gallery of Art shows a pale baby lying in a very colorful cradle. Some of his well-known paintings include trees, such as Fruittees, Large Poplar, Birch Forest, and Apple Tree. At the beginning of the 20th Century, he went through a golden phase during which he used gold leaf in his paintings, and many of his paintings highlighted female sexuality. Name this artist who created The Kiss.

ANSWER: (Gustav) Klimt

18. Chemistry
At the beginning of the 20th Century, this scientist wrote about the effects that carbon dioxide could have on climate. The equation named after him gives the dependence of the rate constant on temperature and activation energy. In 1884, he received the lowest passing grade possible for his thesis, which concluded that electrolytes dissolved in water split into ions, but it eventually led to him receiving the Nobel Prize. Name this Swede who won the Nobel Prize in 1903.

ANSWER: (Svante) Arrhenius
19. United States Literature
In her poem Daddy, she seems to imply that her father is a Nazi and she is a Jew. The poem refers to the death of her father, which happened when she was a child. Her poem Lady Lazarus ends with the words, “Out of the ash I rise with my red hair And I eat men like air.” Her only novel was about Esther Greenwood, a magazine intern in New York City who receives electroshock therapy. Name this wife of Ted Hughes who committed suicide by sticking her head in an oven.

ANSWER: (Sylvia) Plath

20. World History
His early attempts to gain power were failures, leading to a four-year exile to New York and later a life sentence in the town of Ham from which he escaped. This eventual leader directed Baron Haussmann to redesign his capital city so that, among other things, cannons could be used within it. Near the end of his life, he started a war with Prussia, during which he was captured and exiled to England. He also backed Cavour in Italy and Maximilian the First in Mexico. Name this first President and last monarch of France.

ANSWER: Napoleon III (accept (Charles) Louis-Napoleon (Bonaparte), do not accept Napoleon by itself)

Tiebreakers:
If you need to replace a question, take the corresponding question from the Replacement Packet rather than one of these questions. In case of a tie, use these questions in order until one is answered correctly.

There is disagreement over whether she gave birth to Helen or merely raised her, but sources agree that she was the mother of Clytemnestra. She also gave birth to the Dioscuri, also known as Castor and Pollux, two twins with different fathers. One was the son of Tindareus, her husband and the King of Sparta. The other was the son of Zeus. Name this woman seduced by Zeus when he was in the form of a swan.

ANSWER: Leda

This color is mentioned in the title of a John Steinbeck novella that begins when Jody Tiflin gets an animal and in a novel by Wilson Rawls. It also was the color of Garibaldi’s shirts and is the name of the river that forms part of the border between Oklahoma and Texas. Its wavelength is about six hundred fifty nanometers, which is longer than other colors, and it is located at the top of primary rainbows. Name this color which is used for seven of the stripes on a US flag and the maple leaf on a Canadian flag.

ANSWER: Red

This country borders only Germany. Name this country whose capital is Copenhagen.

ANSWER: Denmark