

Starcraft

TTGT11 VI: Lick My Love Pump

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Theme: This is a balanced packet, wherein all the answers are related to the Starcraft videogame franchise. No prior knowledge of Starcraft is needed; any prior knowledge of Starcraft will be—at best—marginally advantageous.

Tossups

1. This film shows some of the atrocities that ushered in "Year Zero." Set several years after the deposition of Prince Norodom Sihanouk, (*) this film features John Malkovitch as photographer Al Rockoff and Sam Waterston as journalist Sydney Schanberg. FTP, name Roland Joffé's first feature film, starring Haing Ngor as Dith Pran, who struggles to survive in Cambodia under the Khmer Rouge.

Answer: Killing Fields

2. This man lends his name to the multiplicative inverse of the gamma function in incidence algebras, and to the continuous group of conformal mappings of the Riemann sphere. He developed barycentric calculus and introduced homogeneous coordinates in geometry. (*) He is best known for a construct consisting of the real projective plane with one hole. It is a non-orientable surface, two of which can be glued together to make a Klein bottle. FTP, name the man who lends his name to a one-sided, one-edged strip.

Answer: August Ferdinand Möbius

3. One of this character's sons had six fingers on each hand and six toes on each foot, and was killed by Jonathan the son of Shim'e-a. According to [First] Samuel, he wore (*) a target of brass between his shoulders, the staff of his spear was like a weaver's beam, and his spear's head weighed six hundred shekels of iron. His opponent decapitated him with his own sword after sinking a stone into his forehead with a sling. FTP, name this giant Philistine who was killed by David.

Answer: Goliath

4. After this band's first four albums, Terry Williams replaced Pick Withers on drums, starting with the 1984 live album *Alchemy*. Other albums (*) include *Communiqué* and *Making Movies*. The opening line of one of this band's songs, sung by guest backing vocalist Sting, led to it being the first video shown on MTV Europe. The album *Brothers in Arms* was released by, FTP, this band fronted by Mark Knopfler.

Answer: Dire Straits

5. One of this man's stories inspired Fry's *A Phoenix Too Frequent*, Voltaire's *Zadig*, and Synge's *In the Shadow of the Glen*. He appears as the uncle of Vinicius in Sienkiewicz's *Quo Vadis?* (*) and one of his characters lent his name to an early version of Fitzgerald's *The Great Gatsby*. His best-known work includes the episodes of "The Widow of Ephesus" and "Trimalchio's Banquet," and tells the adventures of Giton, Ascyrtos, and Encolpius. FTP, name this man, appointed Nero's "judge of elegance," the author of the *Satyricon*.

Answer: Gaius Petronius Arbiter or Titus Petronius Niger

6. A mill with its wheel frozen can be seen in the lower right. People build a fire outside the inn at the left edge. In the foreground, the three title figures walk down the hill near the inn, (*) while the midground features small figures skating on frozen ponds. The title characters haven't had much success, as they only carry one fox, and they are followed by their dogs as they slog through the winter landscape in, FTP, what painting by Pieter Bruegel the Elder?

Answer: Hunters in the Snow or Hunters Returning Through the Snow

7. This group was endorsed by the Papal bull *Omne Datum Optimum*, which exempted them from tithes and taxes. The founder Hugues de Payens attended the Council of Troyes, (*) where Bernard of Clairvaux outlined the order's Rule. On October 13, 1307, every member in France was arrested by Philip the Fair; they were dissolved in 1312, and their riches were eventually given to the Knights Hospitallers. FTP, name this order whose name came from their initial quarters, the site of the former Jewish house of worship.

Answer: Templars or Knights Templar or Poor Knights of Christ

8. Weapons based on this phenomenon include the explosively pumped flux compression generator, while vulnerable equipment can be somewhat protected by Faraday cages. This phenomenon (*) can be produced by charge separation of photoelectrons and Compton recoil electrons from cations. The term can also refer to any high-intensity, short duration burst of broadband light energy. In both cases, it results in current and voltage surges. FTP, name this phenomenon which can knock out electronic equipment within the blast radius.

Answer: electromagnetic pulse or EMP

9. The inner portions of these structures consist of chromaffin cells innervated by the splanchnic nerve. The inner two zones of the outer portion of these structures produce DHEA, androstenedione, (*) and glucocorticoids, including cortisol. The outer cortex also produces aldosterone. The inner medulla secretes catecholamines important to the sympathetic nervous system, especially in producing the fight-or-flight response. FTP, name these endocrine glands which secrete epinephrine and sit atop the kidneys.

Answer: adrenal glands (or) suprarenal glands

10. When the main character in this novel interrupts Darlene's "Harlett O'Hara" act, her cockatoo attacks him, trying to take the earring he wears (*) as part of his pirate costume. The main character drinks copious amounts of Dr. Nut cola, contributing to his frequent flatulence and belching, but he complains that it is the lack of a "proper theology and geometry" causing closures of his pyloric valve. Centered on Ignatius J. Reilly, FTP, name this work by John Kennedy Toole.

Answer: A Confederacy of Dunces

11. This creature lived in the place where Dionysus descended to Tartarus when he went to get Semele. It was killed prior to the capture of the Ceryneian Hind, and after the slaying of the Nemean Lion (*). Hercules drove it from its lair with burning arrows, and buried its immortal head under a boulder while Iolaus used a torch to cauterize the other neck-stumps to keep it from growing more heads. FTP, name this many-headed creature from Lerna, slain by Hercules.

Answer: Lernaean Hydra

12. It was preceded by an eight-day practice run that was code-named Exercise Tiger, and early objectives included securing what became known as Pegasus Bridge. (*) A large-scale diversion known as Operation Fortitude helped convince the enemy that the Pas de Calais was the intended landing site, but troops were actually sent to Gold, Sword, Juno, Utah, and Omaha Beaches. FTP, name this June 6, 1944, Allied invasion of Western Europe in WWII.

Answer: Operation Overlord (or) Battle/Invasion of Normandy (or) D-Day

13. Boudin or mullion structures can be caused by this process, which is associated with power-law rheologies in the surrounding rock. This term also refers to a slow form of mass wasting involving downhill movement (*) of regolith. It can operate continuously between earthquakes in certain fault zones, and is favored over fracture at low strain rates. FTP, name this continuous aseismic slipping process which shares its name with a Watergate-era organization.

Answer: creep (prompt on aseismic slip until "mass wasting")

14. In this play, the pastor agrees to fund an establishment for sailors due to blackmail threats from a carpenter with a gimpy leg. This occurs shortly after a fire destroys an orphanage (*) meant to commemorate the Captain, a depraved man who forced his maid Johanna to sleep with him, producing Regina. The Captain's legacy haunts the next generation, as his son Oswald Alving succumbs to syphilis-induced madness in, FTP, what Ibsen play?

Answer: Ghosts or Gengangere

15. Frederick James Gregg's pamphlet "For and Against" gave the name "The Cubist Room" to Gallery I. (*) Gallery I was also nicknamed the "Chamber of Horrors," and had Cubist works like Braque's *Mozart Kubelick*, and a painting compared to "an explosion in a shingle factory." FTP, name this 1913 exhibition which introduced American audiences to avante-garde artworks like Duchamp's *Nude Descending A Staircase, No. 2*.

Answer: the Armory show or the International Exhibition of Modern Art

16. She was attacked following a practice session at Cobo Arena. Her assailant, Shane Stant, was later charged (*) with assault, along with Derrick Smith and also Shawn Eckardt, the bodyguard of a fellow competitor. Her landing leg was seriously bruised, but a month later she took the silver at the 1994 Winter Olympics behind Oksana Baiul. FTP, name this American figure skater who was attacked by associates of Tonya Harding.

Answer: Nancy Kerrigan

17. During the seventh century BCE, their number expanded to include six thesmothetai. They were elected directly by the Ecclesia under (*) the constitutional reforms of Cleisthenes. Eventually tenure was reduced to one year, and later the strategoi took over military leadership duties from the Polemarch, and after holding office they became members of the Areopagus for life. FTP, name these magistrates of Athens.

Answer: Athenian Archons

18. This isotope can undergo double beta decay. In fast breeder reactors, neutrons are fired at this non-fissionable isotope, eventually resulting in fissionable (*) plutonium-239. This isotope is preferentially removed in diffusion or centrifuge separation of its hexafluoride from lighter isotopes of the same element, leaving this isotope as the primary component of depleted uranium. FTP, name this most abundant isotope of uranium.

Answer: Uranium-238 (accept 238 after "depleted uranium.")

19. One character in this novel rides the seven-foot tall horse Red Hare and wields the 90 pound blade Green Dragon; his style name is Changsheng, and he becomes the leader of the Five Tiger (*) Generals. He swears brotherhood with two men in the Oath of the Peach Orchard, and the three work to put down the Yellow Turban revolt. Zhang Fei, Guan Yu, and Liu Bei go on to oppose the ambitious Cao Cao [pron. Tsao Tsao]. FTP, name this Chinese novel covering the period from the fall of the Han to the beginning of the Qin, also a popular videogame in its own right.

Answer: Romance of the 3 Kingdoms or Romance of 3 Kingdoms or San Kuo chih yen-i

20. They consisted of four pieces of legislation, and Benjamin Franklin's grandson Benjamin Franklin Bache was arrested under the last one. (*) One of them raised the waiting period for naturalization from 5 to 14 years, and they were attacked in the Virginia and Kentucky Resolutions, leading to one deportation. FTP, name these laws passed during the presidency of John Adams, supposedly as protection against dangerous foreigners and political dissidents.

Answer: **Alien and Sedition Acts**

21. In the computer game Diablo II, this type of mega-demon is an alternate of the Pit Lord and the Venom Lord. Examples in literature include Gothmog High-Captain of Angband and the one known as Durin's Bane. (*) A character of this name in the US version of Street Fighter 2 killed Dhalsim's elephant with a single Gigaton Punch. FTP, give the name for the demon of shadow and fire found in the Mines of Moria who falls with Gandalf the Grey in *The Fellowship of the Ring*.

Answer: **Balrog**

Bonuses

1. Answer the following on Jewish resistance to the Romans, FTPE.

(10) Members of this militant Jewish faction committed mass suicide rather than surrender when the Romans captured the fortress Masada. They worked to incite the Jewish Revolt of 66 CE.

Answer: Zealots

(10) This man put down the Jewish Revolt, sacking Jerusalem and destroying the Second Temple in 70 CE; this was commemorated in a triumphal arch. He succeeded his father Vespasian as Roman Emperor.

Answer: Titus Flavius Vespasianus (do not prompt on Vespasian)

(10) This Jewish historian lived through and wrote an account of the Jewish Revolt. He defended his conduct in an appendix to his *Jewish Antiquities*.

Answer: Flavius Josephus or Joseph Ben Matthias

2. Answer the following on works of literature set during plagues FTPE.

(10) In this collection, ten people flee from Florence, which is being ravaged by the Black Death. They tell each other stories for ten days.

Answer: The Decameron

(10) This author wrote A Journal of the Plague Year based on his memories of the bubonic plague in London in 1665.

Answer: Daniel Defoe

(10) In this Edgar Allan Poe story, Prince Prospero retires with his courtiers to a fortified abbey in an unsuccessful attempt at avoiding the title plague.

Answer: The Masque of the Red Death

3. Name these evil beings from Norse mythology FTPE.

(10) This leader of the giants of Muspelheim will destroy the world with fire at Ragnarok, except for one forest, from which the new humans Líf and Lífþrasir will emerge.

Answer: Surtur

(10) This middle child of Loki and Angrbode will kill and be killed by Thor at Ragnarok. Thor once wrestled this creature disguised as a cat.

Answer: the Midgard Serpent (or) Jormungandur (or) Jormagund

(10) This four-eyed dog, whose chest is perpetually covered in blood, guards Helheim. At Ragnarok, he will kill and be killed by Týr.

Answer: Garm

4. Stuff about Spanish colonies in the New World FTPE.

(10) Under this system, certain Spaniards were given grants of Indians, for whom they were responsible. The Spaniards could tax their Indians and exact labor.

Answer: encomienda

(10) This system, similar to the fazenda and estancia, replaced the encomienda in many places. It was centered on large ranches worked by Indians who were supposedly free wage laborers. In some places it lasted into the 20th century.

Answer: hacienda system

(10) Blasco Núñez Vela, viceroy of this territory, was executed by conquistadors when he attempted to enforce the New Laws. It was considered Spain's most valuable possession in the New World because of its silver production, including the mines at Potosí.

Answer: Peru

5. Name these stars on a 15-5 basis.

(15) This fourth-brightest star in the night sky, a red giant, forms the Spring Triangle with Spica and Denebola or Regulus.

(5) This is the brightest star in the constellation Boötes, and can be found by following the arc of the handle of the Big Dipper.

Answer: **Arcturus**

(15) This brightest Cepheid variable can be found using Merak and Dubhe.

(5) This is the brightest star in the Little Dipper.

Answer: **Polaris** (or) **North Star** (or) **Pole Star**

6. Name these Queen songs from lyrics, FTPE.

(10) Are you ready, are you ready for this/ Are you hanging on the edge of your seat/ Out of the doorway the bullets rip/ To the sound of the beat

Answer: **Another One Bites The Dust**

(10) Mama, just killed a man/ Put a gun against his head/ Pulled my trigger, now he's dead

Answer: **Bohemian Rhapsody**

(10) Left alone with big fat Fanny/ She was such a naughty nanny/ Heap big woman you made a bad boy out of me

Answer: **Fat Bottom Girls**

7. Answer the following on an architect and his work FTPE.

(10) This architect's works include the Kresge auditorium and chapel at MIT, the TWA terminal at JFK, and Dulles International Airport.

Answer: **Eero Saarinen**

(10) This structure in the Jefferson National Expansion Memorial lies on the bank of the Mississippi River in St. Louis.

Answer: **Gateway Arch**

(10) The Gateway Arch has the shape of this curve, the shape assumed by a chain supported at its ends under the influence of gravity.

Answer: **catenary curve**

8. Name these Faulkner works FTPE.

(15) This novel is not set in Yoknapatawpha County. It focuses on competing aviators in New Valois, and was adapted into the film *The Tarnished Angels*.

Answer: **Pylon**

(15) In this, Faulkner's last novel, eleven year old Lucius Priest, Boon Hogganbeck, and Ned McCaslin steal Lucius's grandfather's car and drive to Memphis.

Answer: **The Reivers**

9. Name these important results associated with the kinetic theory of gases FTPE.

(10) This law states that the kinetic energy of a gas is determined by its temperature. As a result, two samples of gas will diffuse or effuse at relative rates given by the square root of the ratio of their molecular masses.

Answer: **Graham's Law**

(10) This theorem states that the average energy associated with each quadratic term in the Hamiltonian for an ideal gas is $\frac{1}{2} k T$.

Answer: **equipartition theorem**

(10) Kinetic theory ignores the volume of gas molecules and their interactions aside from collisions. These assumptions are relaxed in deriving this equation of state, which includes namesake a and b parameters to describe particle volume and interaction forces.

Answer: **van der Waals equation of state**

10. Name these people who captured Antioch FTPE.

(10) Antioch was captured in 1085 by this ruling tribe of the Oghuzz Turks, whose leaders included Toghril Beg and Alp Arslan.

Answer: **Seljuks** or **Seljuk Turks**

(10) A monk claimed to find the Holy Lance after Antioch was captured in 1098 during this Crusade, which saw installed Bohemond as the first Prince of Antioch.

Answer: **First Crusade**

(10) Antioch was razed in 1268 by Baibars, a sultan of these Muslim slave-soldiers. They were first extensively used by the Abbasid caliph al-Mu'tasim.

Answer: **Mamluks** or **Mamelukes**

11. Answer the following about a movie FTPE.

(10) This movie features the alien Gelflings and Skeksis, played by muppets.

Answer: **Dark Crystal**

(10) This man wrote and helped direct *Dark Crystal*.

Answer: **Jim Henson**

(10) This Gelfling, voiced by Henson, restores the Dark Crystal. Wings? He doesn't have wings!

Answer: **Jen**

12. Name these men in the life of the Shakespearean character Regan, 5-10-15.

(5) Regan is one of the three daughters of this title character of a Shakespeare tragedy.

Answer: **King Lear**

(10) Regan is poisoned by her sister Goneril over this man, the treacherous bastard son of the Earl of Gloucester. He is fatally wounded by his legitimate brother Edgar.

Answer: **Edmund**

(15) Regan marries this man, who cheerfully pokes out Gloucester's eyes, exclaiming, "Out, vile jelly!"

Answer: **Duke of Cornwall**

13. Answer the following about tanks FTPE.

(10) The main US combat tank is named in honor of this general. He was a leader in the relief effort in the Battle of the Bulge, where he is quoted as saying, "They've got us surrounded again, the poor bastards."

Answer: **Creighton Williams Abrams Jr.**

(10) This British offensive led by General Byng on a portion of the Hindenburg line in WWI saw the first large-scale use of tanks in battle.

Answer: **Cambrai**

(10) This July 1943 battle on the Eastern Front in WWII was the largest armored engagement ever. Commanders included Zhukov, Manstein, and Model.

Answer: **Kursk**

14. Answer the following on a class of economically important minerals FTSNOP.

(5) The ore pyrite, or fool's gold, is a primary source of this metallic element.

Answer: **iron**

(5) The ore galena is a primary source of this metallic element.

Answer: **lead**

(10) This mineral, which can exhibit penetration twinning, is the primary ore of mercury.

Answer: **cinnabar**

(10) Pyrite, galena, cinnabar, and several other important ores, such as stibnite and sphalerite, belong to this class of minerals, distinguished by the presences of a certain chalcogen.

Answer: **sulfides**

15. Answer the following on works of literature featuring blizzards, FTSNOP.

(10) The title characters in this story are the merchant Vasili Andreyevich and his servant Nikita. They are caught in a storm, and Vasili sacrifices himself to save Nikita.

Answer: **Master and Man** or **Hozjain I Rabotnik**

(10) This poem begins, "The sun that brief December day/ Rose cheerless over hills of gray." Subtitled "A Winter Idyll," it describes the poet's family cheerfully riding out a blizzard in their cozy house.

Answer: **Snow-Bound: A Winter Idyll**

(5;5) FFPE, name the authors of "Master and Man" and "Snow-Bound."

Answer: **Leo Tolstoy** and **John Greenleaf Whittier**

16. Name these mythological characters associated with vultures, 5-10-15.

(5) This Titan was chained to a rock, and his liver was eaten daily by a vulture.

Answer: **Prometheus**

(10) The vulture was the attribute associated with air for this god of the four elements. He was originally worshipped by the Toltecs, became the supreme god of the Maya, and was later identified by the Aztecs with Quetzalcoatl.

Answer: **Kukulcan** (or) **Gukumatz**

(15) Name either the Egyptian vulture-goddess of Upper Egypt who, with Buto, was depicted on the pharaoh's head, or the Egyptian vulture-goddess of Thebes, where she was considered the consort of Amun.

Answer: **Nekhbet** (or) **Mut**

17. Stuff about Plato's Academy, FTPE.

(10) The sacred olive grove of the Academy was cut down to make siege engines in 86 BCE by this man, the rival of Marius. He became dictator after his second invasion of Rome.

Answer: **Lucius Cornelius Felix Sulla**

(10) This Roman Emperor closed the Academy in 529 CE, along with all other pagan schools. He employed the eunuch general Narses.

Answer: **Flavius Justinianus I** or **Flavius Petrus Sabbatius**

(10) After Justinian closed the Academy, many of the scholars flocked to the court of Khosrau the Just, a king of this Persian dynasty.

Answer: **Sassanid** or **Sassanian**

18. Answer the following about a space shuttle FTPE.

(10) This space shuttle's flights saw the first space walk and Sally Ride's first mission to space. It logged 10 flights.

Answer: **Challenger**

(10) Challenger also saw this man's first mission to space, making him the first African-American in outer space.

Answer: **Guion S. Bluford Jr.**

(10) The Challenger disaster was caused by failure of one of these seals in the right solid rocket booster.

Answer: **O-rings**

19. Name the novel on a 30-20-10 basis.

(30) The torpedo ram *Thunder Child* has early success. The first impact comes between Horsell, Ottershaw and Woking.

(20) The invaders make use of poison gas, powerful heat rays, and robotic tripods.

(10) This H. G. Wells novel tells of a Martian invasion of Earth.

Answer: **The War of the Worlds**

20. Answer the following on a series of children's books FTPE.

(10) This children's author wrote *The Chronicles of Prydain*, which include *The Castle of Llyr* and *The Book of Three*.

Answer: **Lloyd Alexander**

(10) This second book in the series was adapted into a Disney animated film of the same name. The title refers to an artifact used by Arawn to create undead soldiers from corpses.

Answer: **The Black Cauldron**

(10) This young man, an Assistant Pig-Keeper, is the main character of the series, eventually becoming High King following the departure of the Sons of Don.

Answer: **Taran**

21. Answer the following on a certain fundamental particle, FTPE.

(10) This gauge boson mediates the electromagnetic force.

Answer: **photon**

(10) Photons have this spin value.

Answer: **1**

(10) A particle with spin 1 generally has 3 spin projection states, but photons only have 2, since this spin projection is not allowed for photons.

Answer: **0**

22. Name the authors of these anthropological works based on studies of native tribes F15PE.

(15) *Structure and Function in Primitive Society*; *The Andaman Islanders*

Answer: **Alfred Reginald Radcliffe-Brown**

(15) *Witchcraft, Oracles and Magic among the Azande*; *The Nuer*

Answer: **Edward Evan Evans-Pritchard**