**ITU SCHOOL of FOREIGN LANGUAGES**

**ADVANCED ENGLISH PROGRAM**

**ING 201 FINAL EXAM**

**13 MAY, 2016**

**BOOKLET A**

* **This booklet consists of 11 pages. Make sure there are no missing pages.**
* **The duration of the exam is 90 minutes.**
* **Please read the instructions carefully before answering and use a pencil.**
* **There are 28 questions.**

**STUDENT NAME: …………………………………………………………………………**

**STUDENT NUMBER: ……………………………………………………………………..**

**STUDENT FACULTY: …………………………………………………………………….**

**CRN of ING 201 CLASS: ………………………………………………………………….**

**NAME of ING 201 INSTRUCTOR: ………………………………………………………**

**PART I. (6 x 1 = 6 points)**

**Read the following 4 reference entries and answer questions 1-3 accordingly. Mark your answers on the optical sheet.**

**a:**  York, T. M., & Tang, H. (2016). Plasma dynamics needed for effective research and development work in plasma applications. In M. G. Crawley (Ed.), *Energy from the nucleus: The science and engineering of fission and fusion applications* (pp. 24-34). New York: AP Press.

**b:**  Xing, F. (2016). *Creating security safeguards and surviving a data breach*. Paper presented at The Identity Theft and Data Breach Conference, Ottowa, Canada. Retrieved from http://www.idconference2016.com/

**c:**  Windley, B. F. (2015). Geologic history of Earth. In *Encyclopaedia Britannica*. Retrieved from http://global.britannica.com/science/geologic-history-of-Earth

**d:**  Nielsen, K. M. (2003). Transgenic organisms – time for conceptual diversification? *Nature, 37*(3), 222 - 235.

**1.** Which of the sources above is an electronic encyclopaedia article?

**2.** Which of the sources above is an edited book?

**3.** Which of the sources above is a journal article?

**Read the following 4 reference entries and answer questions 4-6 accordingly. Mark your answers on the optical sheet.**

**a:**  Sagan, C. (1997). *The demon haunted world: Science a candle in the wind.* London: Headline Publishing.

**b:**  *Transgenic animals: Their benefits to human welfare*. (n. d.). Retrieved from http://www.actionbioscience.org/biotechnology/margawati.html

**c:**  Berkan, İ. (2016, April 10). Car technology and Turkey. *Hurriyet Daily News.* Retrieved from http://www.hurriyetdailynews.com/car-technology-and-turkey.aspx

**d.**  Kimlik bilgilerini korumak için ne yapmalı*?*[What do you need to do to protect your personal data?].(2016, April 10). *Hürriyet*. Retrieved from http://www.hurriyet.com.tr/kimlik-bilgilerini-korumak-icin-ne-yapmali-40083955

**4.** Which of the sources above is a non-English article published in an online newspaper?

**5.** Which of the sources above is a book?

**6.** Which of the sources above is an online article from a science-based website?

**PART II. (5 x 1 = 5 points)**

**Read the given reference entry, and decide which citation form is correct.**

York, T. M., & Tang, H. (2016). Plasma dynamics needed for effective research and development work in plasma applications. In M. G. Crawley (Ed.), *Energy from the nucleus: The science and engineering of fission and fusion applications* (pp. 24-34). New York: AP Press.

**7.** Which of the below can be the correct citation for the source above?

a. (Crawley, 2016, p. 24)

b. (York, T. M. & Tang, H., 2016, p. 24)

c. (Crawley, York & Tang, 2016, p. 24)

d. (York & Tang, 2016, p. 24)

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*Transgenic animals: Their benefits to human welfare*. (n. d.). Retrieved from http://www.actionbioscience.org/biotechnology/margawati.html

**8.** Which of the below can be the correct citation for the source above?

a. (“Transgenic Animals”, no date, para. 10-12)

b. (“*Transgenic animals*”, n. d., para. 10-12)

c. (“Transgenic Animals”, n. d., para. 10-12)

d. (Action Bioscience Organization, n. d., para. 10-12)

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Windley, B. F. (2015). Geologic history of Earth. In *Encyclopaedia Britannica*. Retrieved from http://global.britannica.com/science/geologic-history-of-Earth

**9.** Which of the below is the correct citation for the source above?

a. (Encyclopaedia Britannica, 2015, “*Stratigraphy*”)

b. (Windley cited in *Encyclopaedia Britannica*, 2015, “Stratigraphy”)

c. (Windley, 2015, “Stratigraphy”)

d. (Encyclopaedia Britannica: Stratigraphy, 2015)

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Nielsen, K. M. (2003). Transgenic organisms – time for conceptual diversification? *Nature, 37*(3), 222 - 235.

**10.** Which of the below can be the correct citation for the source above?

a. (Nielsen, 2003, p. 223)

b. (Nature, 2003, p. 223)

c. (“Transgenic Organisms”, 2003, p. 223)

d. (Nielsen, K. M., p. 223)

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Feynman, R. P. (1998). *The meaning of it all: Thoughts of a citizen scientist.* Boston: Addison Westley.

Sagan, C. (1997). *The demon haunted world: Science a candle in the wind.* London: Headline Publishing.

**11.** Which of the below can be the correct citation when **citing more than one source**?

a. (Feynman & Sagan, 1998 & 1997 p. 55 & pp. 67, 69)

b. (Feynman, 1998, p. 55 & Sagan, 1997, p. 67, 69)

c. (Feynman, 1998, p. 55) + (Sagan, 1997, p. 67, 69)

d. (Feynman, 1998, p. 55; Sagan, 1997, pp. 67, 69)

**PART III.** Study the following **thesis statements** and decide if they are acceptable, have all the required content and a correct grammatical structure. **(5 x 1 = 5 points)**

**12**. The sale of transgenic animals should not be allowed because they pose a threat to the ecosystem, they are unfit for consumption and their breeding is unethical.

1. Acceptable
2. Does not have the necessary content or sufficient content to be a complete thesis statement
3. Not grammatical

**13.** The processes of fission and fusion differ from each other in 3 main ways.

1. Acceptable
2. Does not have the necessary content or sufficient content to be a complete thesis statement
3. Not grammatical

**14.** Throughout history the age of the Earth has been calculated by heat loss modelling, radiometric dating and helio-seismic verification.

1. Acceptable
2. Does not have the necessary content or sufficient content to be a complete thesis statement
3. Not grammatical

**15**. Banks use Artificial Intelligence (AI) systems to organizational operation, invest in stocks, and manage properties.

1. Acceptable
2. Does not have the necessary content or sufficient content to be a complete thesis statement
3. Not grammatical

**16.** Identity theft is one of the biggest crimes today.

1. Acceptable
2. Does not have the necessary content or sufficient content to be a complete thesis statement
3. Not grammatical

**PART IV.** Read the following excerpts and decide if the included **direct quotations** are acceptable or not. **(4 x 2 = 8 points)**

**17. Adapted from** **Weizenbaum**, 1976

Weizenbaum’s influential book *Computer Power and Human Reason* displays his ambivalence towards computer technology and lays out his case: while Artificial Intelligence may be possible, we should never allow computers to make important decisions because computers will always lack human qualities such as compassion and wisdom. Weizenbaum famously stated, “The computer programmer is a creator of universes for which he alone is the lawgiver. No playwright, no stage director, no emperor, however powerful, has ever exercised such absolute authority to arrange a stage or field of battle and to command such unswervingly dutiful actors or troops.”

1. Acceptable
2. Not necessary to be quoted
3. Not grammatical

**18. Adapted from “Fish farming and Transgenic animals”, 2015**

David Snell, a former president of the Potomac Aquatic Club, said some members have voiced their concerns about the effects transgenic fish might have on other species. He said, “There is little doubt that transgenic fish will, if raised, escape to the surrounding waters. Estimates of farmed salmon escapees in British Columbia total at least 400,000 fish from 1991 to 2001”. He said genetic engineering may have some uses, but a lot more research needs to be done.

1. Acceptable
2. Not necessary to be quoted
3. Not grammatical

**19. Adapted from Coover, 2015**

Robert Coover describes black holes “the seductive dragons of the universe, outwardly quiescent yet violent at the heart, uncanny, hostile, primeval, emitting a negative radiance that draws all toward them, gobbling up all who come too close.” Once having entered the tumultuous orbit of a black hole, nothing can break away from its passionate but fatal embrace.

1. Acceptable
2. Not necessary to be quoted
3. Not grammatical

**20. Adapted from “The Universe and Dr. Einstein”, 2010**

Classical physics assumed, unjustifiably, that an object preserves the same dimensions whether it is in motion or at rest and that a clock keeps the same rhythm in motion and at rest. Common sense dictates that this must be so. However, as Einstein pointed out, “common sense is actually nothing more than a deposit of prejudices laid down in the mind prior to the age of eighteen.” Every new idea one encounters in later years must combat this accretion of “self-evident” concepts. It is because of Einstein’s unwillingness ever to accept any unproven principle as self-evident that he was able to penetrate closer to the underlying realities of nature than any scientist before him.

1. Acceptable
2. Not necessary to be quoted
3. Not grammatical

**PART V.** Read the following excerpts and decide if the **paraphrases** are acceptable or not.

**(4 x 2 = 8 points)**

**21. Adapted from “Just How Old is the Universe?” 2015**

The Hubble telescope was able to help nail down an age of about 13.7 billion years by taking pictures that helped scientists calculate the current expansion rate of the universe. One key element was Hubble’s observations of special types of bodies called Cepheid variable stars, which have very stable degrees of brightness that make them very effective at measuring distance.

**Paraphrase:**

Images from the Hubble telescope of Cepheid variable stars allowed for the efficient calculation of distances owing to their constant levels of luminosity. Such observations have also played a role in the calculations of the pace of expansion of the universe, helping scientists to put its age at around 13.7 billion years.

1. Yes, the paraphrase is acceptable.
2. No the paraphrase plagiarizes the original by using the same vocabulary or grammar.
3. No, the paraphrase has a different meaning than the original.

**22. Adapted from McGuinness, 2015**

The confusion regarding fusion and fission is not because their processes are the same; the words are just similar. You need to remember that one process is a breaking down process and the other is a process of building up. When things fuse (fusion), you start with smaller objects (tritium, deuterium) and build larger objects (helium). When things "fiss" or break down, you start with a larger object (uranium) and finish with smaller objects (strontium, calcium, barium, etc).

**Paraphrase:**

Since the words fission and fusion sound similar, it is easy to confuse their meaning. Fusion relates to the process of splitting a large element such as uranium and ending up with smaller or broken down elements such as strontium, barium, calcium and so on. On the other hand, in the case of fission, smaller elements such as tritium or deuterium are used to make a bigger entity such as helium. The two processes are different, while the terms for them sound alike.

1. Yes, the paraphrase is acceptable.
2. No the paraphrase plagiarizes the original by using the same vocabulary or grammar.
3. No, the paraphrase has a different meaning than the original.

**23. Adapted from “Can China keep its new city dwellers healthy and happy?” , 2015**

GloFish, fluorescent red zebrafish sold as novel pets, have become the first transgenic animals on the market. Their sales have produced regulatory controversies and lawsuits, yet profit for Yorktown Technologies has been booming in the United States and Canada. With a market plan calling for sales of these genetically modified animals in a widening number of countries, continuing controversy about their worldwide effect on the food chain seems likely.

**Paraphrase:**

As GloFish become available in a widening number of countries, it seems that the storm regarding their ecological impact is only beginning. These zebrafish, which are fluorescent red in colour, have become the first transgenic animals on the market. In North America, their sales have generated considerable profit for Yorktown Technologies but there has also been legal action and debates on how to regulate these genetically modified fish.

1. Yes, the paraphrase is acceptable.
2. No, the paraphrase plagiarizes the original by using the same vocabulary or grammar.
3. No, the paraphrase has a different meaning than the original.

**24. Adapted from “Being Human”, 2014**

According to the US Department of Justice, drug trafficking is now being replaced by identity theft as the number one crime. Mostly, personal information is obtained by hackers from the internet. If you do not take adequate security precautions, it will probably take you a lot of time and money to recover from ID theft. Even worse, some innocent victims have ended up in prison because identity thieves have committed crimes in their names.

**Paraphrase:**

Due to inadequate security measures, it has become quite widespread that people’s personal details are stolen electronically. It is very expensive and time consuming to resolve and some targeted people have even gone to jail due to felonies committed in their names. The US Department of Justice stated that it is now the common offence and takes place more frequently than the sale of narcotics.

1. Yes, the paraphrase is acceptable.
2. No, the paraphrase plagiarizes the original by using the same vocabulary or grammar.
3. No, the paraphrase has a different meaning than the original.

**PART VI.** Read the following excerpts and decide if the **summaries** are acceptable or not. **(4 x 2 = 8 points)**

**25. Adapted from “Why Are Space Telescopes Better Than Earth-Based Telescopes?”, 2010**

The Hubble Space Telescope has beamed hundreds of thousands of images back to Earth over the past two decades. One might call it the most skilled paparazzo, snapping countless images of the stars. Thanks to these images, scientists have been able to determine the age of the universe and shed light on the existence of dark energy. These extraordinary advancements have been possible because the Hubble images surpass those taken by Earth-based telescopes. While ground-based observatories are usually located in highly elevated areas with minimal light pollution, they must contend with atmospheric turbulence, which limits the sharpness of images taken from this vantage point. The effects of atmospheric turbulence are clear to anyone looking at the stars. This is why they appear to twinkle.

**Summary:**

Due to the fact that the Hubble Space Telescope is not affected by atmospheric turbulence, it has been able to provide many precise images of the stars. This information has enabled scientists to answer the question of how old the universe is and also to better understand the concept of dark energy.

1. Yes, the summary is acceptable.
2. No, the summary plagiarizes the original using the same vocabulary or grammar.
3. No, the summary has a different meaning than the original.

**26. Adapted from “What's the Difference Between Fission & Fusion?”, 2013**

In a fission reaction, a heavy atomic nucleus is split into smaller nuclei, other particles and radiation. In a typical reaction, an atom of uranium 235 absorbs a neutron and splits into two lighter atoms, barium and krypton, emitting radiation and neutrons. Under special circumstances (the attainment of "critical mass"), the emitted free neutrons can split further atoms, which in turn bring about more splitting, producing a very fast chain reaction. Nuclear power plants exploit the process of fission to create energy. On the other hand, fusion within the cores of the sun and other stars generates their radiating energy by fusing two hydrogen atoms to produce a helium atom. In a fusion reaction, two or more light atomic nuclei fuse to form a single heavier nucleus. Because E = mc 2, when two atoms are fused, a very small amount of mass can be converted into a large expanse of energy. Fusion is an experimental technology for producing power.

**Summary:**

Nuclear power plants exploit the process of fission to create energy; whereas, fusion which happens in the cores of suns and other stars is an experimental technology for producing power. Fission is the splitting of a heavy, unstable nucleus into two lighter nuclei. On the other hand, fusion is the process where two light nuclei combine together releasing vast amounts of energy.

1. Yes, the summary is acceptable.
2. No, the summary plagiarizes the original using the same vocabulary or grammar.
3. No, the summary has a different meaning than the original.

**27. Adapted from “Transgenic Animals: Their Benefits to Human Welfare?”, no date**

"Seeing is believing with GloFish. They are absolutely stunning!" The preceding is some of the marketing material you'd read if you visited the GloFish website. Beauty may be in the eye of the beholder, but nearly everyone would agree that these first transgenic animals made available as pets in the United States are a worthy conversation piece. Their approval has raised important questions about whether, and to what extent, genetically modified animals should be made available to consumers. A transgenic, or genetically modified organism is one that has been altered through recombinant DNA technology, which involves either the combining of DNA from different genomes or the insertion of foreign DNA into a genome. GloFish are a type of transgenic zebrafish (*Danio rerio*) that have been modified through the insertion of a coloured fluorescent protein gene in an embryo. Apart from being an attractive pet, Fluorescent Glofish’s purpose is supposedly to protect the environment from pollution, this transgenic fish could determine when a waterway is contaminated by fluorescent materials. Currently, GloFish are the only recombinant-DNA animal that has been approved by the U.S. Food and Drug Administration - but not for human consumption. Some biologists and food scientists are worried the fish will make it into the wild and disrupt natural biodiversity.

**Summary:**

Attractive as pets, fluorescent Glofish have also been bred to detect environmental pollutants. A fluorescent protein gene was introduced into a zebrafish embryo, allowing it to integrate into the zebrafish's genome. At first, their approval for sale caused controversy with scientists fearing escaped fish may disturb the ecosystem but it has now been accepted that their advantages outweigh their disadvantages.

1. Yes, the summary is acceptable.
2. No, the summary plagiarizes the original using the same vocabulary or grammar.
3. No, the summary has a different meaning than the original.

**28. Adapted from “The Cyber Kidnappers: The Day Hackers Hijacked my Phone”, 2016**

Something wasn't right about the phone screen. It had gone dark. That's when Nick Harvey examined it more closely. It looked odd. And it was then that he saw the message. His smart phone had, in effect, been hijacked and he was being asked to pay a ransom. "My device had been locked", he told BBC Radio 4's PM Programme. He was being instructed "to send some money via a voucher code to get the phone unlocked". Ken Main knows how Nick felt. It happened to him with the computers at his hairdressing salon in Glasgow. "It was a pale blue screen with the message right in the middle," he explained. "If we wanted the information back we would have to pay a ransom." They had both become victims of what is known as ransomware - a type of computer virus which locks the users out of their computers or phones and demands money for the return of the files. You are probably now trying to guess how much Ken and Nick were being asked to pay. It is possibly quite a lot lower than you would think. "They asked me for $50 or €50" Nick recalled. For Ken it was slightly more. "They were looking for a ransom of $350 initially," he said. "When we contacted them by e-mail, they put that up to €1000." The demands are set at what is regarded as a payable level, according to Jornt van der Wiel from the security software company, Kaspersky Lab. They tend to be for "the amount of money that people are still willing to pay in order to get their files back." He explained, for a small business, "Sometimes it's cheaper for the company just to pay the ransom than to put back the backup because that in the end costs more". Security experts have found ways of unlocking some forms of ransomware but those behind the cyber criminals are developing more sophisticated viruses too. Back in the hairdressers in Glasgow, Ken Main has no regrets about paying the ransom. However, it didn't solve all his problems. Do not think paying up means all will end well. "I would say 80 to 90% of the information was corrupted" he said.

**Summary:**

Ransomware is a type of malware that restricts access to the infected computer system in some way, and demands that the user pay a ransom to the malware operators to remove the restriction. Ransom payments may be lower than expected, but once paid, users often find their files damaged.

1. Yes, the summary is acceptable.
2. No, the summary plagiarizes the original using the same vocabulary or grammar.
3. No, the summary has a different meaning than the original.