

Started on Wednesday, 20 October 2021, 8:16 AM PDT**State** Finished**Completed on** Wednesday, 20 October 2021, 9:33 AM PDT**Time taken** 1 hour 16 mins**Points** 56.00/57.00**Grade** 98.25 out of 100.00**Question 1**

Complete

1.00 points out of 1.00

Which one of the following is most closely associated with society's increasing access to scientific and technical information?

- a. Agriculture, weaving, pottery, glass
- b. Steam engine, electrical motor, gasoline engine
- c. Printing, radio, television, internet
- d. Wind mill, water mill, tidal mill
- e. Steel frameworks, plate glass, elevators, telephones

Question 2

Complete

1.00 points out of 1.00

Engineering can be considered a "team sport" because: engineering teams compete, some teams win and some teams lose, winning has real rewards, and winning depends on teamwork skills as well as on technical skills.

Select one:

- True
- False

Question 3

Complete

1.00 points out of 1.00

The United States' use of the atomic bomb to more quickly end World War II has been unconditionally accepted by history as a morally and ethically justified decision

Select one:

- True
- False

Question 4

Complete

1.00 points out of 1.00

President Roosevelt decided to proceed with the development of the atom bomb after receiving a letter from Albert Einstein and other scientists saying it could be accomplished,

Select one:

- True
- False

Question 5

Complete

1.00 points out of 1.00

Which of the following is more correct?

- a. People who watched the 1960 John Kennedy v. Richard Nixon debate on television said that Kennedy won because Kennedy had a better command of the facts
- b. People who watched the 1960 John Kennedy v. Richard Nixon debate on television said that Kennedy won because Kennedy looked better on television

Question 6

Complete

1.00 points out of 1.00

The text uses Flavius Josephus to illustrate that because of the many similarities of Roman civilization to ours, the ancient Roman people were essentially very similar to people today.

Select one:

- True
- False

Question 7

Complete

1.00 points out of 1.00

Which of these statements most accurately describes project management?

- a. It can be both stifling and freeing, both enabling and restricting
- b. It is only necessary for large projects
- c. All engineers welcome the chance to practice it

Question 8

Complete

1.00 points out of 1.00

Which of the following is a more correct statement of Kant's Categorical Imperative?

- a. Your actions should always reflect how other people are already acting.
- b. Your actions should always reflect how you would want all other people to act.

Question 9

Complete

1.00 points out of 1.00

The example we gave of California's 1960s experience with a fair housing law showed that: (1) California was early in passing a law against discrimination in housing; (2) Californian's voted to overturn this law; (3) The courts accepted the will of the majority. Which of these statements are true?

- a. 2 and 3
- b. 1, 2, and 3
- c. 1 and 2
- d. 1 and 3

Question 10

Complete

1.00 points out of 1.00

We identified trust in automation as a key factor in the Boeing 737 MAX case, and cited this case as an example of "undertrust" - that is, not enough trust in an automation system.

Select one:

- True
- False

Question 11

Complete

1.00 points out of 1.00

We said in class that there is a real difference between "having ethics" and "being ethical."

Select one:

- True
- False

Question 12

Complete

1.00 points out of 1.00

One of the cautions on the use of Utilitarianism is that sometimes the action itself is morally or ethically wrong.

Select one:

- True
- False

Question 13

Complete

5.00 points out of 5.00

For each of the following ethical philosophies match the correct description [MATCHING: 5 Points Total]

What is the correct description for Duty Ethics?	The ethical quality is in the action.
What is the correct description for Utilitarianism?	The ethical quality is in the results.
What is the correct description for Pragmatism?	Each ethical case is special.
What is the correct description of Rights Ethics?	Fundamental to all humanity
What is the correct description for Virtue Ethics?	Attitudes rather than actions

Question 14

Complete

1.00 points out of 1.00

William James said "An act has no ethical quality whatsoever unless it be chosen out of several [acts that are] all equally possible." The meaning of this is:

- a. An ethical choice can involve consideration of less ethical alternatives.
- b. Acts themselves cannot have ethical qualities
- c. All possible choices are ethical ones.
- d. One should never consider acts that are not ethical

Question 15

Complete

1.00 points out of 1.00

What is the key lesson learned from the Ford Pinto, Ford Explorer, and Boeing cases?

- a. Engineers must consider overall company goals when designing products
- b. Trying too hard for performance is often the cause of engineering failures.
- c. Neglecting known safety issues in favor of business factors such as cost and schedule can be considered a failure of engineering ethics.
- d. Engineering mistakes may cause deaths and injuries, but nobody is to blame.
- e. Consumers will immediately recognize and shun products that have safety defects.

Question 16

Complete

1.00 points out of 1.00

In the textbook, we quoted the Scottish poet Robert Burns with regard to what aspect of Emotional Intelligence?

- a. Self-regulation
- b. Empathy
- c. Socialization
- d. Self-awareness
- e. Motivation

Question 17

Complete

1.00 points out of 1.00

One reason we say that mass production helped separate "thinking from doing" is because factory workers were not expected to contribute their thoughts or ideas to the products they produced.

Select one:

- True
- False

Question 18

Complete

1.00 points out of 1.00

A statement such as "You are very good at math for a _____," was presented in class as an example of a:

- a. Truthful comment
- b. Grammatical error
- c. Micro-aggression
- d. Welcome compliment

Question 19

Complete

1.00 points out of 1.00

A protest by Pennsylvania coal miners over their loss of jobs due to automation of mining could best be called a modern case of what objection to technology?

- a. Restorationism
- b. John Henryism
- c. Luddism

Question 20

Complete

1.00 points out of 1.00

We said it is a potential problem that the way engineers see themselves is sometimes not the way that society sees them.

Select one:

- True
- False

Question 21

Complete

1.00 points out of 1.00

Which of the following is a more accurate statement of Dr. Weltman's stated position on ethics?

- a. Ethics is a set of acts based on a personal ethical framework.
- b. Ethics is essentially a *set of ideas and rules* by which to live

Question 22

Complete

1.00 points out of 1.00

The Sputnik satellite was a revelation to America mainly because:

- a. The Soviet Union had beaten us into space
- b. It showed that life on other planets was possible
- c. It proved that the earth was really round

Question 23

Complete

1.00 points out of 1.00

The Honor Code of the US military academies states: "*A cadet will not lie, cheat, or steal, or tolerate those who do.*" The problem with this simple code is that it has not been able to encompass all the ethical situations arising at the institutions where it is applied.

Select one:

- True
- False

Question 24

Complete

1.00 points out of 1.00

Surveys have shown that technical expertise is the most essential skill for both top level executives and managers in high-technology companies.

Select one:

- True
- False

Question 25

Complete

1.00 points out of 1.00

The period we call the Enlightenment introduced many new ideas in philosophy, science, and technology. Which of the following was **NOT** one of them?

- a. Demonstration as a key part of science
- b. Universal morals
- c. The mathematical structure of the world
- d. The rule of reason
- e. Scripture as the only source of knowledge

Question 26

Complete

1.00 points out of 1.00

Prof. Barbara Perry of the University of Virginia Miller Center identified a key phrase of the Magna Carta as perhaps the most important sentence in the English language.

Select one:

- True
- False

Question 27

Complete

1.00 points out of 1.00

We used the example of the monkeys and the cucumber or grape reward to illustrate that the concept of fairness may be biologically based in primates as well as people.

Select one:

- True
- False

Question 28

Complete

1.00 points out of 1.00

The idea of interchangeable rifle parts was first brought to the US Army by:

- a. Benjamin Franklin
- b. Orville Wright
- c. Eli Whitney
- d. James Watt
- e. Henry Ford

Question 29

Complete

1.00 points out of 1.00

Henry Ford set the price of his Model T cars high because he wanted only wealthy people to be able to drive them.

Select one:

- True
- False

Question 30

Complete

1.00 points out of 1.00

We used the English code of Magna Carta to show that sometimes in a society some high members may be above the law.

Select one:

- True
- False

Question 31

Complete

1.00 points out of 1.00

We can most accurately say that the 1960s in America were:

- a. A period of societal unrest that resulted in major civil rights legislation
- b. A quiet period in which the country continued its recovery from World War II
- c. A period in which America turned its attention away from technical change

Question 32

Complete

1.00 points out of 1.00

The American poet Carl Sandberg's poem "Prayers of Steel" characterizes the first part of the 20th Century as a period of change and growth - epitomized by the great American skyscraper.

Select one:

- True
- False

Question 33

Complete

1.00 points out of 1.00

In class, we said that research has shown a positive correlation between an executive's emotional intelligence and his or her business success.

Select one:

- True
- False

Question 34

Complete

1.00 points out of 1.00

In Andrea's Printer Problem we concluded that it would not be ethical in her case to accept a gift from a vendor because it could affect her decision making.

Select one:

- True
- False

Question 35

Complete

1.00 points out of 1.00

While good writing is an essential part of engineering, employers cannot ethically consider writing skills in hiring engineers.

Select one:

- True
- False

Question 36

Complete

1.00 points out of 1.00

Which of the following have we identified as important ethical actions for members of teams? (1) Listening to and considering others' opinions; (2) Sharing their knowledge and ideas; (3) Differing forcefully but constructively.

- a. 1 and 2
- b. 2 and 3
- c. 1, 2, and 3
- d. 1 and 3

Question 37

Complete

1.00 points out of 1.00

The following are all examples of US laws that were overturned by a change in the country's moral and ethical climate, sometimes expressed through the courts: (1) slavery; (2) segregation of public facilities; (3) disenfranchisement of women; (4) illegality of interracial marriage; and (5) discrimination in housing.

Select one:

- True
- False

Question 38

Complete

1.00 points out of 1.00

A research study showed that engineering teams approach a problem in the same way regardless of whether the problem is framed as a business problem or an ethical problem.

Select one:

- True
- False

Question 39

Complete

3.00 points out of 3.00

Match the objection to technology to its definition. [MATCHING: 3 points]

What is the right description for the objection to technology we call *Restorationism*?

Against losing valuable societal aspects of the past

What is the right description for the objection to technology we call *Luddism*?

Against losing skilled jobs to automation

What is the right description for the objection to technology we call *John Henryism*?

Against loss of personhood

Question 40

Complete

1.00 points out of 1.00

In our 183EW student survey on diversity at HSSEAS, the two outstanding issues for improvement were: (1) the low percentage of African American, Latino, and low income students; and (2) the low percentage of women students.

Select one:

- True
- False

Question 41

Complete

1.00 points out of 1.00

In the textbook we described the development of a laser cloth cutting system as an engineering project in which the project organization differed markedly from the product sub-systems.

Select one:

- True
- False

Question 42

Complete

1.00 points out of 1.00

In the 20th Century the world learned an important lesson about technological advance; this was:

- a. Technological advance can coexist with warfare and social upheaval on a worldwide scale
- b. Technology advances can by themselves ensure a peaceful world
- c. Technological advances in a prior century will not lead to advances in the next century.

Question 43

Complete

1.00 points out of 1.00

The idea of Natural Law as a source of ethics is particularly important in America because our founding fathers incorporated it into the Declaration of Independence,

Select one:

- True
 False

Question 44

Complete

1.00 points out of 1.00

Dr. Joe Miller said that individuals scoring better than their team on the Desert Survival problem should not be proud of themselves because they were not able to pass on their knowledge to their teammates.

Select one:

- True
 False

Question 45

Complete

0.00 points out of 1.00

We can say that the problem with the Boeing 737 MAX engines started because the original Series 737 aircraft was designed low to the ground so that a built-in stairway could be used for access in less-developed airports.

Select one:

- True
 False

Question 46

Complete

1.00 points out of 1.00

The refusal of an engineering firm to provide services or products to gays, lesbians, transgender people, African Americans, or any other protected group could constitute a dereliction of its ethical duty to "hold paramount the safety, health, and welfare of the public," regardless of whether the firm's action was within or outside the law.

Select one:

- True
 False

Question 47

Complete

1.00 points out of 1.00

We have said that cross education of our politicians would be an effective way of solving C. P. Snow's two-culture problem because legislation is too slow to control new technological methodologies, new systems, and new products.

Select one:

- True
 False

Question 48

Complete

1.00 points out of 1.00

We used the example of the Jefferson Bible to show that even rational thinkers like Thomas Jefferson can believe in miracles.

Select one:

- True
 False

Question 49

Complete

1.00 points out of 1.00

The process of patent protection was particularly powerful in the Industrial Revolution because it allowed engineers and technicians to benefit financially from their inventions

Select one:

- True
 False

Question 50

Complete

1.00 points out of 1.00

A defining characteristic of the engineering profession is that it is social both in its concerns and its processes.

Select one:

- True
 False

Question **51**

Complete

1.00 points out of 1.00

The US Constitution specifically states that harmful speech is prohibited, so generally the courts have ruled in favor of people who have been emotionally injured by hateful speech.

Select one:

- True
- False

[◀ 06 - The Process of ...](#)

Jump to...

[Lecture 7 -Part 1 ▶](#)