



Review Test Submission: Hour Exam 1 Fall 2022

User	Sai Prasanth Kesa
Course	Fall 2022 TTU Ethics in Engineering Practice and Research (ENGR-5392-D01) Full Term
Test	Hour Exam 1 Fall 2022
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Attempt Score	94 out of 100 points
Time Elapsed	1 hour, 11 minutes out of 1 hour and 30 minutes
Instructions	<p>When taking this exam, closing your browser, switching to another browser page, or losing your Internet connection will cause Blackboard to immediately save your exam and logout. Note that the exam clock will continue to run. You may log back in to Blackboard and reopen your exam to finish it until the clock runs out or you submit your exam. When the clock runs out Blackboard will automatically submit your exam and answers you have saved. Save your answers as you go. You can revisit them before final submission. Unanswered questions will be scored as a zero.</p>

Pay careful attention to Blackboard's assignment of letters to TRUE and FALSE. A is not always assigned to TRUE and B is not always assigned to FALSE. When answering a multi part TRUE/FALSE question, Blackboard will show the assignment of letters A and B to TRUE and FALSE to the right of the list of questions.

Examples:

A. This statement is TRUE. (Select A to indicate True)

B. This statement is FALSE. (Select B to indicate False)

In this list of questions A is assigned to TRUE and B is assigned to FALSE for all questions.

A. This interpretation is FALSE. (Select A to indicate False)

B. This interpretation is TRUE. (Select B to indicate True)

In this list of questions A is assigned to FALSE and B is assigned to TRUE for all questions.

Results All Answers, Submitted Answers, Correct Answers, Feedback, Incorrectly Answered Questions
Displayed

Question 1

0 out of 0 points



Enter your Texas Tech University assigned R number in the format Rnnnnnnnn in the space provided below for 2-factor identification. Entering your R number affirms that you have completed this exam without assistance from or collaboration with any other person

Selected Answer: ☒ R11786744

Correct Answer:

Evaluation Method

Correct Answer

Case Sensitivity

☒ Contains

R

Question 2

3 out of 3 points



Baker Article ---

Prof. Bill Baker states that better science will never allow us to perfectly answer the question: "How safe is safe enough?"

Selected Answer: ☒ True

Answers: ☒ True
☐ False

Question 3

3 out of 3 points



Intuition ---

Intuition is defined as an insight that just seems to be true or correct and is not the result of a mental process that can be examined explicitly.

Selected Answer: ☒ True

Answers: ☒ True
☐ False

Question 4

3 out of 3 points



Respect for Persons --- According to Kant's theory of Respect for Persons, one or more of the following apply when solving moral and ethical problems. (Choose from multiple answers: Correct answers result in positive partial credit. Incorrect answers result in 50% negative partial credit. Answers not chosen result in neither. The score is the sum of partial credits but not less than zero.)

Selected
Answers:

☒ A.

Any solutions that cannot be at once universalized and rationally accepted are to be discarded.

☒ B.

A decision maker should only make those choices that would be acceptable for everyone to make.

Answers:

☒ A.

Any solutions that cannot be at once universalized and rationally accepted are to be discarded.

☒ B.

A decision maker should only make those choices that would be acceptable for everyone to make.

C.

It is permissible for the decision maker to be excluded from the consequences of the choices they make.

D.

According to Kant, the consequences of an action must always be considered when making a choice.

Question 5

3 out of 3 points



Baker Article ---

Prof. Bill Baker states that it is the primary function of analytical philosophy to identify positive and negative outcomes for all stakeholders resulting from ethical decisions made by practicing professionals.

Selected Answer: ☒ False

Answers: ☐ True

☒ False

Question 6

0 out of 3 points



Utilitarianism ---

Which one of the following, if any, is the most important concept in utilitarianism?

Selected

☒ B.

Answer:

that the concept of "good" applies only to tangible outcomes.

Answers:

A.

that the terms "right", "wrong", "good" and "bad" can be used interchangeably.

B.

that the concept of "good" applies only to tangible outcomes.

C.

that the concept of "good" defines a means to an end, not an end in self.

☒ D.None of these are the most concept with respect to utilitarianism.

Question 7

3 out of 3 points



Intuition ---

Philosopher and writer David Sosa maintains that intuitions may be treated as reliable under some but not all conditions.

Selected Answer: ☒ True

Answers:

☒ True☐ False

Question 8

3 out of 3 points



Virtue Ethics ---

According to Aristotle, a "virtue" is: (choose the best answer).

Selected

☒ C.

Answer:

choosing the mean between the two extremes of excess and deficiency.

Answers:

A. a behavior that is commonly accepted by society

B. established simply by thinking good thoughts

☒ C.

choosing the mean between the two extremes of excess and deficiency.

Question 9

3 out of 3 points



Baker Article ---

According to Prof. Bill Baker, while professionalism entails responsibilities this does not result in any associated rights for professionals.

Selected Answer: ☒ FalseAnswers: ☐ True☒ False**Question 10**

3 out of 3 points



Baker Article ---

In his article, "Engineering Ethics: Applications and Responsibilities", Prof. Bill Baker argues that the goals of those teaching courses in ethics are: *(Choose from multiple answers. Correct answers result in positive partial credit. Incorrect answers result in 50% negative partial credit. Answers not chosen result in neither. The score is the sum of partial credits but not less than zero.)*

Selected ☒ B.

Answers: To generate an awareness of ethical concerns and dilemmas.

☒ D. To bring about more value laden professional behavior.

Answers: A.

To provide hard and fast answers on the "right thing to do" in resolving ethical dilemmas.

☒ B.

To generate an awareness of ethical concerns and dilemmas.

☐ C. To allow prejudice in ethical decision making.☒ D. To bring about more value laden professional behavior.**Question 11**

3 out of 3 points



Intuition: --- One can be more confident in the use of intuition in resolving an ethical dilemma if one or more of the following conditions are met. Select the best answer(s). *(Correct answers result in positive partial credit. Incorrect answers result in 50% negative partial credit. Answers not chosen result in neither. The score is the sum of partial credits but not less than zero.)*

Selected

☒ D.

Answers:

None of these conditions allows one to be more confident in using intuition to resolve an ethical dilemma.

Answers:

A. A person is emotionally invested in a particular outcome

B. The ethical issue is complex rather than simple.

C. Intuitive judgments are in conflict with each other.

☒ D.

None of these conditions allows one to be more confident in using intuition to resolve an ethical dilemma.

Question 12

3 out of 3 points



Virtue Ethics ---

According to Aristotle, exercising self-control is praiseworthy and sufficient in itself to be virtuous.

Selected Answer: ☒ False

Answers:

☐ True

☒ False

Question 13

3 out of 3 points



Virtue Ethics ---

Practical wisdom requires that one perform the right action: *(Choose from multiple answers: Correct answers result in positive partial credit. Incorrect answers result in negative partial credit. Answers not chosen result in neither. The score is the sum of partial credits but not less than zero.)*

Selected
Answers:

- ☒ A. at the right time
- ☒ B. for the right duration
- ☒ C. at the right intensity
- ☒ D. towards the right people

Answers:

- ☒ A. at the right time
- ☒ B. for the right duration
- ☒ C. at the right intensity
- ☒ D. towards the right people
- ☐ E. maximizing personal benefit
- ☐ F. protecting one's clients or employers from the consequences when they make unethical decisions.

Question 14

3 out of 3 points



Ethical Theory ---

To qualify as an ethical theory, an ethical theory should provide answers to three basic questions (1) What is the supreme principle of morality? (2) How do we solve moral problems? and (3) What kind of persons should we be?

Selected Answer: ☒ True

Answers: ☒ True
☐ False

Question 15

0 out of 3 points



Utilitarianism ---

In spite of the problems that arise in the application of one or more forms of utilitarianism, a focus on consequences helps in determining the right thing to do.

Selected Answer: ☒ False

Answers: ☒ True
☐ False

Question 16

3 out of 3 points

**Introduction to Engineering Ethics ---**

Theories highlighted in this course embody ethical principles that only practicing professionals are obligated to follow.

Selected Answer: ☒ False

Answers: ☐ True
☒ False

Question 17

3 out of 3 points

**Utilitarianism**

Prescribing ways of deciding the right thing to do is the central concern of an engineering ethics course.

Selected Answer: ☒ True

Answers: ☒ True
☐ False

Question 18

3 out of 3 points

**Baker ---**

Analysis of the "real" costs for a public project frequently indicates the "real" costs will significantly exceed the "real" benefits, even though many of the "costs" and "benefits" are not quantifiable. However, if the financial analysis of quantifiable dollar benefits indicates the dollar benefits will significantly exceed the dollar costs, practicing professionals are obligated to recommend to the public that the project go forward on the basis of the quantifiable financial benefits.

Selected Answer: ☒ False

Answers: ☐ True
☒ False

Question 19

3 out of 3 points



Virtue Ethics ---

From Aristotle's viewpoint, happiness or eudaimonia ... *(Choose from multiple answers). Correct answers result in positive partial credit. Incorrect answers result in 50% negative partial credit. Answers not selected result in neither. The score is the sum of the partial credits, but not less than zero.)*

Selected



B.

Answers:

is the basis of the distinction between right and wrong (virtue and vice)



C. is an objective concept that applies to all human beings

Answers:

A. is a subjective concept that varies with each individual



B.

is the basis of the distinction between right and wrong (virtue and vice)



C. is an objective concept that applies to all human beings

D. refers simply to contentment

E. refers to gratification without regard to moral implications

Question 20

3 out of 3 points



Virtue Ethics ---

Role ethics is exclusive to professionals practicing in the public domain and only when they are in possession of specialized knowledge or training. Role ethics would not be appropriate for persons in other societal roles such as serving as an elected member of a planning commission or being an elected member of a school board.

Selected Answer: ☒ False

Answers:

True



False

Question 21

3 out of 3 points



Utilitarianism ---

Pluralistic utilitarians argue that (Select the best answer)...

Selected
Answer:

☒ B. There is more than one category of intrinsic good.

Answers:

A.
Acts that promote one intrinsic good will never negate another intrinsic good.

☒ B. There is more than one category of intrinsic good.

C.
Things like knowledge, friendship, and accomplishment are only valued in virtue of their connection to pleasure.

D. Intrinsic goods are easily determined.

E. All of these are part of pluralistic utilitarianism

F. None of these are part of pluralistic utilitarianism.

Question 22

5 out of 5 points



(A) Match each of the following questions with the correct answer. Answers may be used more than once. Each correct match results in 100% positive partial credit. An incorrect match results in -50% negative partial credit. Unmatched questions result in -50% negative partial credit. The score is the sum of the partial credits but not less than zero. Note that these statements are similar to but not necessarily identical to statements in the homework assessments.

Question	Correct Match	Selected Match
One example of plagiarism is <u>submitting someone else's work as your own work</u> .	A. This statement is <u>TRUE</u> .	A. This statement is <u>TRUE</u> .
Taking passages from your own published work without providing proper reference citations for that work <u>is considered plagiarism</u> .	A. This statement is <u>TRUE</u> .	A. This statement is <u>TRUE</u> .
Using quotations, but not citing the source <u>is considered plagiarism</u> .	A. This statement is <u>TRUE</u> .	A. This statement is <u>TRUE</u> .
Providing proper citations, but failing to change the structure and wording of the borrowed ideas <u>is considered plagiarism</u> .	A. This statement is <u>TRUE</u> .	A. This statement is <u>TRUE</u> .
Failing to bring original thought into the text of an article <u>is considered plagiarism</u> .	A. This statement is <u>TRUE</u> .	A. This statement is <u>TRUE</u> .
Under the copyright law of the United States, exclusive copyrights <u>expire upon the author's death</u> .	B. This statement is <u>FALSE</u> .	B. This statement is <u>FALSE</u> .
The copyright law of the United States protects <u>not only the "expression" of an idea but also the "idea" itself</u> .	B. This statement is <u>FALSE</u> .	B. This statement is <u>FALSE</u> .
If a work is made "for hire" within the meaning of the copyright act of the United States, <u>then the employer or commissioning party</u> , is deemed to be the author and will own the copyright <u>as though it were the true author</u> .	A. This statement is <u>TRUE</u> .	A. This statement is <u>TRUE</u> .
The copyright law of the United States <u>protects</u> the names of businesses, organizations and groups	B. This statement is <u>FALSE</u> .	B. This statement is <u>FALSE</u> .

Works placed in the public domain are free for anyone to copy and use if properly cited. The term "public domain" means that the work is not covered by any intellectual property rights at all (copyright, trademark, patent, or otherwise).

✔ A.
This statement is TRUE.

✔ A.
This statement is TRUE.

The Fair Use exception under copyright law of the United States removes the requirement to provide proper citation of the source in publications.

✔ B.
This statement is FALSE.

✔ B.
This statement is FALSE.

Common Knowledge does not always need to be cited, but the assertion that something is Common Knowledge is not a sufficient reason to fail to cite another's work if you are using their work.

✔ A.
This statement is TRUE.

✔ A.
This statement is TRUE.

All Answer Choices

- A. This statement is TRUE.
- B. This statement is FALSE.

Question 23

5 out of 5 points



(C) This question requires you to think critically about the correct interpretation of the NSPE Code of Ethics. Using the NSPE Code of Ethics and Rules of Practice as the basis, match each statement below with the correct answer. Answers may be used more than once. Correct answers receive 100% positive partial credit. Incorrect answers receive 50% negative partial credit. Unanswered questions result in negative partial credit. The score is the sum of positive and negative partial credits but not less than zero.

Question	Correct Match	Selected Match
If an engineer's judgment is overruled under circumstances that endanger life or property, <u>they are ethically obligated to notify their employer or client and such other authority as may be appropriate.</u>	✓ A. This interpretation is <u>TRUE.</u>	✓ A. This interpretation is <u>TRUE.</u>
<u>As long as engineers are not personally engaged in fraudulent or dishonest activities</u> they may permit the use of their name in business ventures they believe to be engaged in a fraudulent or dishonest enterprise.	✓ B. This interpretation is <u>FALSE.</u>	✓ B. This interpretation is <u>FALSE.</u>
It is ethical for engineers to sign and seal all plans and documents dealing with subject matter for <u>which they lack competence as long as they have reason to believe the documents were prepared by competent engineers.</u>	✓ B. This interpretation is <u>FALSE.</u>	✓ B. This interpretation is <u>FALSE.</u>
It is <u>unethical</u> for engineers and/or their employers to make donations to political candidates in order to gain a competitive edge in receiving future contract awards by public authorities <u>even if the donations are legal under election laws.</u>	✓ A. This interpretation is <u>TRUE.</u>	✓ A. This interpretation is <u>TRUE.</u>
It is ethical for engineers to express public technical opinions <u>that are founded upon knowledge of the facts and competence in the subject matter.</u>	✓ A. This interpretation is <u>TRUE.</u>	✓ A. This interpretation is <u>TRUE.</u>
It is <u>unethical</u> for engineers in public service as members, advisors, or employees of a governmental or quasi-governmental body or department to participate in decisions with respect to services solicited or provided by them or their organizations in private or public engineering practice.	✓ A. This interpretation is <u>TRUE.</u>	✓ A. This interpretation is <u>TRUE.</u>

It is ethical for engineers to represent an adversary interest in connection with a specific project or proceeding in which the engineer has gained particular specialized knowledge working on behalf of a former client or employer without the consent of all of the parties involved.

✔ B.
This interpretation is FALSE.

✔ B.
This interpretation is FALSE.

It is unethical for engineers to use equipment, supplies, laboratory, or office facilities of an employer to carry on an outside private practice unless they have received their employer's consent.

✔ A.
This interpretation is TRUE.

✔ A.
This interpretation is TRUE.

It is unethical for engineers to associate with a non-engineer, a corporation, or partnership serving as a "cloak" for unethical acts.

✔ A.
This interpretation is TRUE.

✔ A.
This interpretation is TRUE.

It is ethical for engineers to admit design errors even if by doing so it would harm the financial interests of their clients or employers.

✔ A.
This interpretation is TRUE.

✔ A.
This interpretation is TRUE.

All Answer Choices

A. This interpretation is TRUE.

B. This interpretation is FALSE.

Response Feedback: See the NSPE Code of Ethics and Rules of Practice

Question 24

30 out of 30 points



In the space provided present a short essay (less than 500 words) on the ethical and professional issues involved in the real world scenario you studied regarding Dr. Sandra Williams. How would the ethical theories you have studied so far in this course apply? If you were Dr. Sandra Williams what are the professional and ethical issues you would consider in making a decision on accepting a position in industry. What is your advice to Sandra?

You may prepare your answer in advance and simply copy (CTRL-C) your answer to the clipboard and paste (use CTRL-V) your answer into the space provided on the exam.

Selected
Answer:

Dr. Sandra Williams is a Ph.D. scholar in Bioengineering. Throughout her studies, she had revealed some viable options to conventional fossil fuels utilizing plant-based fossil fuels. These types of patents may be categorized as "utility patents" in the United States. Dr. Sandra had presented her idea to the United States Patents Office with the support and efforts of her professor and her University Vice President. The patent was later held by all three authors, Dr. Sandra Williams, her professor Dr. David Kelly, and Dr. Owen Founder from the university. During her research and postdoctoral fellowship, Dr. Sandra's interest in capable of facilitating to non-renewable resources grew, and she became even more enthusiastic to pursuing the research. Sandra noticed the critical issue of rainforests being devastated during her research, which resulted in the consequences of greenhouse gas emissions. She said that creating sustainable biofuels from microalgae is an alternate. Scientists felt that this approach may lead in a lower biofuel also while minimizing the environmental effect. With this findings, various firms approached Dr. Sandra with very enticing offers. Before accepting the offer, some professional and ethical considerations must be taken. In terms of financial agreements, the company will pay \$20 million and a 1% royalty on the annual gross income generated by biofuel sales. It is recommended if the royalty percentage is at least 2%. Even while annual sales of biofuels are high, everyone in business should anticipate the future and be prepared for any scenario. Obtaining a solid position in the business is something to worry about. Prior to leaping into the offer with the corporate entities, some ethical factors to consider are that the work carried by the companies should not influence the environment or food crops, that an exclusive license granted should not be sub-licensed to other corporates, and that all work carried out must retained anonymously. It's a nice thing to be affluent. Dr. Sandra also hopes for her primary professor and her university to gain from her study. As she contemplates a good corporation, she finds much more positive connotations. As firms will have some regulations and corporate social obligations to society, a good organization will have some beneficial effects by default. If I were Dr. Sandra, I would accept the offer that includes a well-funded position, a 2% royalty on biofuel sales, and certain ground conditions to save our environment and the patent's sensitive data. Dr. Sandra can provide an exclusive license while retaining some patent know how confidential.

Correct
Answer:

[None]

Response
Feedback:

Good insights and recommendations. Well written. Thanks Bill Marcy

Thursday, December 15, 2022 12:29:00 PM CST

← OK