

- (A) fundamental aspectis of engineering ethics
 - identify & enlist the type of ethical issues in his/her engineering carrier

of white prinspaint is today

- clarify the related concepts theories
- Guide & help in conforting & nesolving ethical & mottal dilemmas
- Stimulate critical & nesponsible neflection and useful de discussion on these issues

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- preie entine und setence

2 stuto anturain _

Hwa enoutted -

moldong familials -

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Me

ethical dilemmal Moral Dilemmas ; generally refers to situations in which a difficult choice has to be made based on conflicting morral issues involved भागु भाभन self determing on Independence Moraly Autonomy it mont you -) is a skill-habit of thinking nationally about ethical issues -) is concerned with decision Making power of a person with regard to ethical issues (a) Hind choice Refute the How to solve dilemma Value theony аррпоск Find alternative solution

a ethical dilemma is a problem in the decision nding process between two possible options, neither of which is absolutety acceptable trom ethical penspective



Moral Development theory

Kohlberg's theory: (ethics of rules & night)

According to Lawrence kohlberg theory of moral development has three levels.

Preconvertional level

- 1 This is the most primitive level
- 2 Primary motive of any individuals is to Satisfy themselves

to escape
punishment
dobeying to
authority
implicitly

conventional lavel

- 1 loyalty and identification are the hall manks of this level
- 2) Primary motive of any individuals is to satisfy others

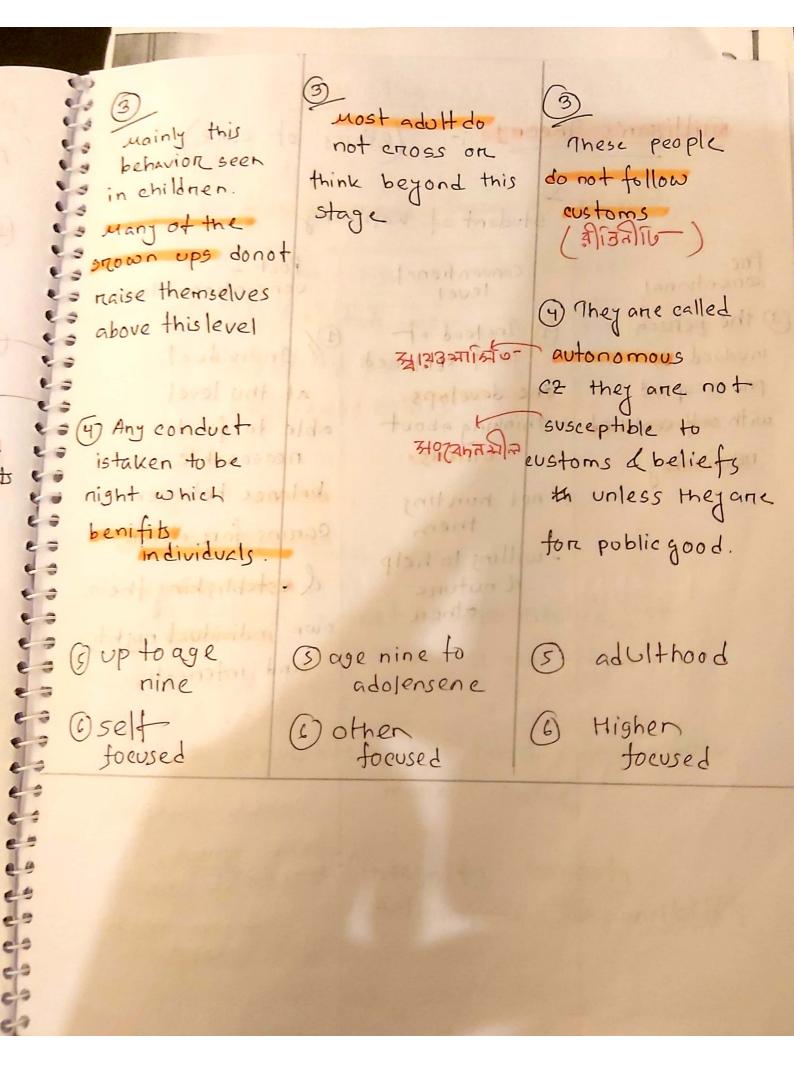
obeying to far
dictates of family
on anoup
implicitly
in cost of own
self intenest

sujet the pleasure of technologie

Post - conventional level

- 1 Individual at this
 level is able to think
 of principales of mishts
 right conduct
 / general good
 negandless of convention
 dindividual interest
- 2) seek to do
 what is moreally
 neasonable and
 to maintain integrity
 44567

the lotesoup



* what is Ethics? -> Ethics nefens to standards of conduct, standards that indicate how one should ne behave based on moral duties & virtues, which are dervied from the principles of right & wrong * Theories of Ethics 1 Religious Ethics
2 Duty Ethics (3) Utilitarinism (y) Kan't Approach to Ethics _ slum asblag sall adt mode toons botsant with conjugace

-) According to kant (is if something is wrong)
it is always wrong

can your action be consistently generalized? ask yourself " what if everyone did that"

happiness does not equal -) In kant's view, morality

has ultimate norral view value only good will nules should be universal. MORTAL

nationalizing to special & pleading ounselves

theat others the The golden rule way you wanted to tnected

Vil of ignonance imagine the situation from both point of view

- 1 safety
- (2) Acceptable Risk
- 3 compliance (STAGTIGE)
- (9) confidentiality
- (5) Environmental health
- 6 Pata intresity
- Forflict of intenest

- (8) honesty | Lishonesty
 - (3) Fainness

danning sykaru

- (10) Societal
 Impact
- (1) Accounting ton uncentainty

Ethical Frame works

- (1) Rights approach :- which option best nespects
 the nights of all who have a stake?
- 2 Utilitanian approach: which option will produce continuous do the most good do the least harm
- 3) Justice approach: which option theat
 people as I want to be
 theated
- (4) Ethics cane approach; which option best for those most inneed
- (5) vintue approach:
 CLE Fina)

 which

which option leads me to
act as a nesponsible
penson

Two dimesions of Ethics in engineening Engineens need to bocially nesponsible when building product a process ton society social nesponsibility nequines professional responsibility OF FINAL # Social Responsibilities neguines taking into consideration the need of society thon any of 11

tocus on finding the # Reasoning : best on at least the nesonably bettern means for obtaining goals (satety PROTESTOR Ethical neasoning Inatical Reasoning is a type of - uses different pratical necsoning methods methods that concerns & science centain societal on Storions life form goals Justice equality health Freedom safety

The components, The engineering code of ethics

Three components:

1) The Fundamental canon:

anticulate basic components of ethics engineering

2) The Rules of pratice.

clanify aspecify indetail the fundamental cannon

on sat middel

3) Professional obligations! - elaborate the obligations the

Law us monal

CSE Fins 1

Legal tuonal

designing a sate

Legal + ammona)

pre civil war in US

Illegal + monal

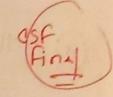
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to come to the
aid an injuned
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Illegal storact

+
Immonal

more allo books ony

uilling
an
innocent
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-) steeling to teed family ethically wrong

but monall connect

(x) would you nish your life to save another person?

- -) Yes but depends on condition
 - it one of my ternily member whom, I have affection a cane
- 2) it one is important member for a community, can do something for good for society
- 3) it one has better standard to provide someone good livelihoods

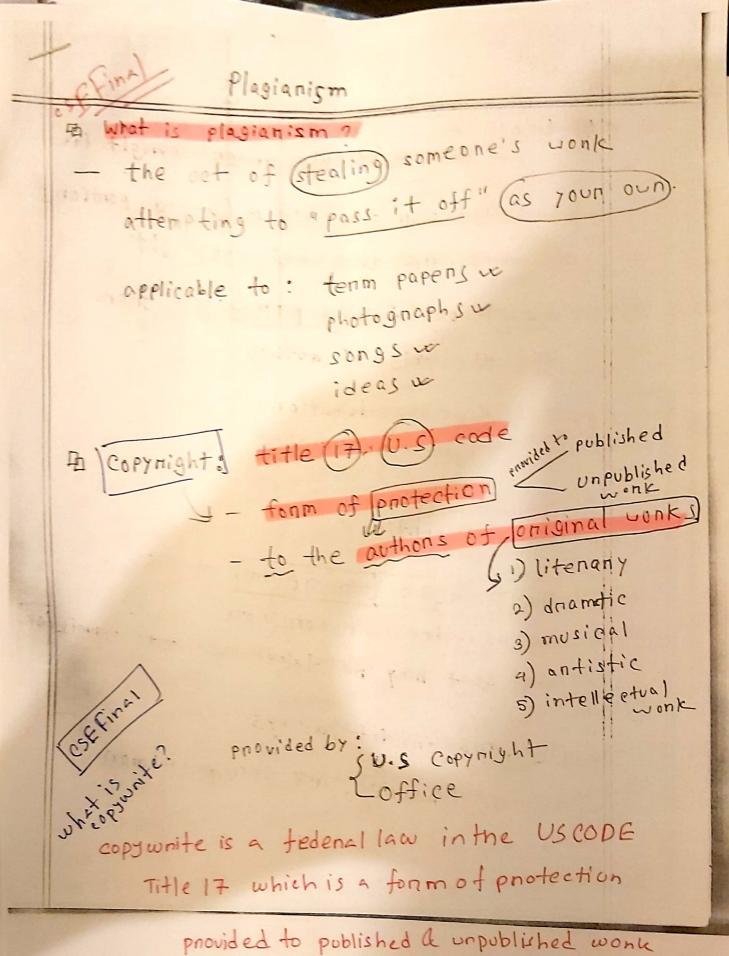
The tell the costomer about the problem and let them decide what you should be next

[CES Final; - Q 2b]

what is Integnity? OFE. final

- Deing honest & having strong morrer principles; morrer uprish to ness
- -> It is negarded by many people
 as the honesty a thuthfulness | accumacy
 of one's action
- -) It is generally apensonal choice to hold one self to consistent moral a ethical standard





provided to published a unpublished work to the authors of original work.

show est what is se? whitten En fain Use: a (statute) under copynight law - allows for the use of (limited) portions of work that has copynight - without taking penmission from the oniginal author punpose : reducation tion nesearich Anc 719 limited pontion: 11 there is no specific no of 00 words, lines on notes that may be taken without penmission - give credit always - if onsome, ask for permission

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4 Confidentiality (acc. to APA guidelines) panticipant's neconds are kept anonymous * IRB - The Institutional Review Boand - Each institution establish this. - composed of scientists and non-scientists The Reporting of Research: [CSE final] + ethics of - no false/deceptive data in Meponts. - if significant ennons - connection must - not present other's work as own, give credit, if used. # Fraud: explicit effont to misnepnesent data * Safeguards against fraud: it's a peen (neview) -when neseanchen submits his anticle, it's needed. * Replication: test accuracy by repeating the oniginal / basic procedures. nepeat priev. nesearch study.