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SUBJECT : PROFESSIONAL ETHICS

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ENGINEERING

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Question No#1): What is difference between ethics and legality? Explain with examples.

Answer:

Ethics:

Ethics is normal beliefs of doing right and wrong. It is the social morals followed in the society by

All the members.

Example:

Respecting elders is a belief and code of ethics in our society, if we respect elders we are ethically

Right and if we do not respect elders we are ethically wrong.

Legality:

It can be an agreement or contract of consistency with the law or being lawful, or it can be

Unlawful in a given jurisdiction

Example:

Two cars on highway met with an accident, now both the car owners are called out to the court where legality from both sides would be tested and decision would be based on legal clues.

Difference between Ethics and Legality:

Ethics	Legality
It refers to the right and wrong acts.	System that governs society and their actions.
It set all the guidelines.	It set rules and regulations.
It is based on individual and professional norms.	It is set by government.
No punishment of breaking ethics.	Punished by government.
It is made to help people to know right and bad.	It is made to maintain social order.
It has not a binding nature.	It has a legal binding.

Examples:

Don't cheat because it's a bad habit.	Don't cheat or you'll be punished.
Don't steal it's not good act to do.	Don't steal or you'll be in jail.
Don't kill humans it's against humanity.	Don't kill humans or you'll be sentenced with death.
Don't harm the trees on road it is out of manners.	Don't harm trees or you will be fined.
Don't break signals it will disturb others.	Don't break signals or you will pay fine.

Conclusion:

Legality and Ethics are both different on each aspect; it includes what a person must do and what a person should do. One is universally accepted and other is human ideal conduct, which is agreed by most of the people. Legality can change from society to country but ethics has a similar connection among all places.

Question No#2):

What are moral values in an engineering environment? Give an example.

Answer:

Moral values:

Moral values are connected to fundamental humans' emotions and experiences that motivate

Us in many ways.

Example:

The immense love and concern of parents, the sympathy and empathy of others while in sufferings, the anger in different situations, the feeling of unfairness and injustices while on certain events, these all are the moral dimensions of human experiences that we share in our daily life.

Moral values in engineering:

In engineering the professional moral values are important to follow because the engineer is expected to fulfil most basic needs in other's lives, which at one side holds lots of responsibilities, therefore moral values in engineering is important to build a belief and professional way of living. Some of the basic moral values in engineering are given below.

- Wisdom: Engineers have to take decision wisely and carefully.
- Trust: Engineers have to build and maintain trust in society.
- Love: Love for humans and humanity keeps the profession alive.
- Honesty: mostly the society will judge them by their honesty in work.
- Self-control: Self-control is important for being professional, it keeps man in discipline.

Why moral values in engineering:

We do not look for moral values in engineering to know about moral and immoral values in society, but to learn about the moral issues in society and learn to learn with them professionally. It also includes the technological problems with advance digital era, and their solutions with updating versions.

Importance of moral values in engineering:

Moral values in engineering involve in following points.

- Social policies
- Responsibilities
- Character qualities
- Knowledge about new things.
- Relationship among customers and organizations.

Question No#3):

Why should we study professional Ethics as engineers? Write a short note.

Answer:

Professional ethics as engineers:

It's an engineer job to make things easy for others, to make things better and to come with solutions to all the complicate problems that's hard for others even to recognize, engineers have created new forms of technology in this technological era. That's why they are held high standard with their work, but at same time they should be held to high ethical standard as well, an engineer having high experience in Technical advancement but ethically having zero commands will be directly rejected from all community and work place.

How to relate ethics with engineering:

Ethics has mostly concerned with how to live a good life, the good environment and the bad environment, the nature of evil, and all the other aspects to live life. Mostly we relate our ethics from our religion and culture but ethics can generate from person to person and place to place, while ethics on engineers goes on 2 terms.

Safety: As without safety they can cause a big damage to themselves as well as to others too, even it can take lives.

Honesty: it is virtually important in all fields but in engineering it is important to stay honest to your profession.

Example:

An engineer working on a large scale project at Kalam road having high skills in field but having no ethical sense, with work according to him perfectly but the environment he working in will surely have changes which he will only know by interacting with local people, by making sentiments with them, and all this will be possible when you will follow ethical views.

Outcomes of following ethics in engineering:

- Making right decisions.
- Making right choices.

- Take action on right things.
- Self-control and self-respect.
- Self integrity
- High ethics will leads to high profits.

Note:

　　You may have engineering degree with good skills but if you lack ethics you will never know how to cope up with your local people, how to follow certain things and you will never lead to profit. Ethics is a gold key to unlock the engineering success.