

November, 2016

Fifth Semester

Time: Three Hours

Information Technology

Professional Ethics & Human Values

Maximum : 60 Marks

Scheme of evaluation

Answer Question No.1 compulsorily.

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

1. Answer all questions

(1X12=12 Marks)

- a What are the two approaches to Engineering ethics
1.Business Ethics 2. Action Oriented

- b Distinguish between 'morality' and 'ethics'

Morality	Ethics
The beliefs of the individual or group as to what is right or wrong.	The guiding principles which help the individual or group to decide what is good or bad

- c How do the human values evolve?

When Two different goals come into conflict we call for a higher or a principal or value which we choose to resolve the conflict.

- d Define service learning?

Service learning is a process of involving students in community services activities combined with facilitated means for applying the experience to their academic and personal development.

- e Define 'civic virtue'?

Civic virtue is morality or a standard of righteous behavior in relationship to a citizen's involvement in society.

- f Compare 'safety' and 'risk'.

A thing is safe if its risks are judged to be acceptable is called safety
Risk implies future uncertainty about deviation from expected .

- g What are the factors that shape self-confidence in a person

Home, School ,Society, Media Consequences, Feedback, Success, Popularity

- h What is 'collegiality'?

Collegial is an adjective describing a work environment where responsibility and authority is shared equally by colleagues.

- i What are the situations when moral dilemmas arise

When conflicts between two or more moral requirements and the agent does not know which of the conflicting requirements takes precedence in that situation.

- j What is a white-collared crime?

White-collar crime refers to financially motivated nonviolent crime committed by business and government professionals.

- k Name three conditions for 'duty ethics', as per Immanuel Kant.

Moral agent(*action*), principle ,will(deciding, choosing, or acting)

- l What is the importance of Industrial Standards

Industry standard is the optimum criteria for any industry to function and carry out operation in their respective fields of production

UNIT – I

- 2.a Distinguish between Kohlberg’s and Gilligan’s approach to ethical (moral) judgments. 8 M

Kohlberg’s Approach [4M]

Age range	Stage	Substages
Birth to 9	Pre Conventional	1.Avoid Punishment 2.Gain reward
Ages 9 to 20	Conventional	1.Gain approval and avoid disapproval 2.Duty and guilt
Age 20 + may be never	Post-Conventional	1.Agreed upon rights 2.Personal moral Stands

Gilligans Approach [4M]

Age range	Stage	Goal
Not listed	Pre Conventional	Goal is individual Survival
Transition is from selfishness to responsibility to others		
Not listed	Conventional	Self-sacrifice is goodness
Transition is from goodness to truth that she is a person too.		
May be never	Post-Conventional	1.Agreed upon rights 2.Personal moral Stands

Any other relevant point 5 Marks will be awarded.

- b Explain various actions of an engineer leading to dishonesty 4 M

Engineer not possessing the following quality leads dishonesty

1. Integrity: Openness and honesty ,both with themselves and with others.
- 2.Independence : TO be free of secondary interests with other parties
3. Impartiality: TO be free of bias and unbalanced interests.
4. Responcibility: The recognition and acceptance of personal commitment.
5. Competence :A thorough knowledge of the work they undertake to do
6. Discretion : Care with communication, trustworthiness.

**Any other 6 relevant points 4 Marks will be awarded
(OR)**

- 3.a What are the general features of morally-responsible engineers? Explain each with appropriate examples. 6 M

1. Proper Intention
- 2.Universibility
- 3.Respect for others persons
4. Caring.
5. Respects for Rights.

Any 2 relevant points with an example of each 6 Marks will be awarded

- 3.b What is meant by Professional Responsibility? 6 M

1. Professional Responsibility Involves the realistic assessment of skills and capacities and the acceptance of their possibilities and limitations.
2. This is core virtue on enabling the professional to acknowledge the responsibility of others.
3. TO accept personal responsibility and to work as a team
- 4.Problems arise when professionals develop an inflated sense of responsibility.
- 5.Seeing themselves as responsible for more than can be or ought to be.
- 6.Realism is critical to ensure the best contribution from all members of the team

Any other 6 relevants point 6 Marks will be awarded

UNIT – II

- 4.a Explain about customs and religion, confidentiality 6 M

Religion is the set of beliefs, feelings, dogmas and practices that define the relations between human being and sacred or divinity. Religion is a cultural system of behaviours and practices, world views, sacred texts, holy places, ethics, and societal organisation that relate humanity to what an anthropologist has called "an order of existence". Different religions may or may not contain various elements, ranging from the "divine". "sacred things", "faith", a "supernatural being or supernatural beings" or "some sort of intimacy and transcendence that will provide norms and power for the rest of life."

A custom (also called a tradition) is a law or right which is not written and is in practice since a long time and is given by our ancestors. It is any thing which lots of people do, and have done for a long time. Usually, the people come from the same country, culture, time or religion. Custom in law is the established pattern of behavior that can be objectively verified within a particular social setting. A claim can be carried out in defense of "what has always been done and accepted by law." Related is the idea of prescription; a right enjoyed through long custom rather than positive law.

Confidentiality is a Information deemed desirable to kept as secret is a relational expression. Highly elaborate systems for classifying information have been developed that identify which individual and groups may have access to what information labeled confidential from unauthorized people.

Any 3 relevant point of each 6 Marks will be awarded

- 4.b Discuss in detail about the employee rights 6 M

Regardless of professional status , including the right to privacy ,the right to participate in activities of one's own choosing outside of work, the right to reasonably object to company policies without fear of retribution and the right to due process. The most fundamental right of an engineer is the right of professional conscience. This involves the to exercise professional judgment in discharging one's duties and to exercise this Judgment in an ethical manner.

No Employer can ask or pressurize an employee into doing something that he Considers unethical and unacceptable. Although this issue is very clear in case for which an engineer refuse on assignment based on an ethical principal that is not shred engineer refuse an assignment based on an ethical principle that is not shared by every one.

**Any 6 relevant points 6 Marks will be awarded
(OR)**

- 5.a What is the importance of 'loyalty' and 'collegiality' in team work 5 M

Collegiality: The attitudes and shred values of partners become critically important to maintaining the desired environment. Leadership of a firm can lawyer in the resolution of dispute the conduct of business and the overall order of society. Vision or mission is important to a sense of well-being and is the essence of purpose's. A partner in the law firm is expected to make a strong contribution.

Loyalty: Agency–loyalty is acting to fulfill one's contractual duties to an employer. These duties are specified in term of the particular tasks for which one is paid as well as the more general activities of cooperating with colleagues and legitimate authority within the corporation Identification –loyalty by contract has as much to do with attitudes, emotions and a sense of personal identity as it does with actions.

Any 3 relevants point of each 2.5 Marks will be awarded

- 5.b Discuss in detail the 'risk benefit analysis' and reducing risk. 7 M

Which engineers sometimes use to help analyze risk and to determine whether a project should proceed is called risk-benefit analysis. In risk-benefit analysis the risks and benefits of the project are assigned dollar amounts, and most of favorable ratio between risks and benefits is sought. The risks are much harder to quantify and more difficult to put a realistic price. It is useful technique if used as a part of a broader analysis and only if used objectively.

In doing risk-benefit analysis one who must consider who takes the risk and who reaps the benefits. It is important to be sure that those who are taking the risks are also those who are benefiting. This consideration is fundamental to issues of economic justice in our society and can be illustrated by the concept of environmental racism which is the placing of hazardous waste sites, factories with unpleasant. The only ethical way to implement risk-benefit analysis is for the engineer to ensure to the greatest extent possible that the risks as well as the benefits of his design are shared equally in society.

Any 4 relevant points 4 Marks will be awarded

Reducing risk:

1. Defining the problem.
2. Generate several solutions
3. Analyze each solution to Determine the pros and cons of each.
4. Test the solution
5. select the best solution.
6. Implement the chosen solution.

Any 5 relevant points 3 Marks will be awarded

UNIT – III

- 6.a Discuss on the 'intellectual property rights'. 8 M

Intellectual property is a class of property emanating primarily from the activities of the human intellect. Any property, movable or immovable is legally protected to prevent it from being stolen. The trade related aspects of IPR popularly known as TRIPS, in the agreement of the World Trade Organization (WTO), recognize seven forms of IPR namely patents, industrial design, trade mark, copy rights, geographical indication, integrated circuits and trade secrets.

Patents: New inventions employing scientific and technical knowledge.

Industrial designs: The features of shape, configuration pattern, ornament of composition of lines or colours applied to any article.

Trade Marks: A trade mark is visual symbol in the form of a word, service or label applied to an article of a manufacturer with a view to indicating to the public the origin of manufacture of the goods affixed with that mark.

Copyrights: A copyright is basically the right to copy and make use of literary, dramatic, musical, artistic, works etc.

Geographical indications: It identifies goods as originating in the territory of a country, an origin or a locality in that territory where a specific quality, reputations of the goods is essentially attributed to their geographical origin.

Any 8 relevant points 8 Marks will be awarded

- 6.b Write a brief account on 'consulting engineering'. 4 M

Consulting engineers have great freedom than most salaried engineers. They also must deal with wider variety of moral concern since they are responsible for their own business decision. Honesty in advertising may be difficult to maintain in the face of pressure to promote their business. The legitimacy of competitive bidding and accepting contingency fees. In determining the extent of responsibility in area as making safety inspections and arriving at ways to settle disputes.

Any 5 relevant points 4 Marks will be awarded

(OR)

- 7.a Explain the meaning and relevance of environmental ethics 7 M

One of the most important political issues of the late 20th century has been environmental protection and the rise of the environmental movement. This movement has sought to control the introduction of toxic and unnatural substances into the environment, to protect the integrity of the biosphere and to ensure a health environment for humans. The environmental movement has led to an increased awareness among engineers that they have responsibility to use their knowledge and skills to help protect the environment.

Ethical issues in environmentalism are a determination of the moral standing of the environment. Anthropocentric meaning that only human beings have moral standing. Animals and plants are important only in respect of their usefulness to humans.

Regardless of the goal there are multiple approaches that can be taken to resolving environmental problems. The cost-oblivious approach the cost is not taken into account but rather the environment is made as clean as possible. The cost benefit analysis which is derived from utilitarianism. The problem is analyzed in terms of the benefits derived by reducing the pollution.

Any 8 relevant points 7 Marks will be awarded

- 7.b Discuss the Ethical Audit Procedure 5 M

The Contractual obligations entered into by the several parties to a project and the ethical duties of those parties. The project brief should set out the aims and constraints of the project and the duties and obligations of the several parties , acknowledging the rewards and methods of payment for the services provided and the quality of services and products expected. The inclusion of an ethical section in every project brief will help reduce the conflicts that inevitably arise under the pressure of project execution. It is best that the review be independent of normal project team meeting and not just included as a late item on.

Any 4 relevant points 5 Marks will be awarded

UNIT – IV

- 8.a Write a notes on Bhopal Gas Tragedy 6 M

When it Happen----- 1M
Consequences----- 2M
Environmental effect----- 1M
Conclussion----- 2M

- 8.b Write a notes on Code of ethics for Institute of Engineers(India) 6 M

Practice his profession with integrity, conscience, dignity and honor and flow the best tradition of the profession. The principles of ecosystemic interdependence diversity, maintenance , resource recovery and inter-relational harmony from the basis of our continued existence. Hold paramount the safety, health and welfare of the people and the protection of the environment.

Uphold and maintain confidentiality and respect for dscrets confided in him by the The clients,employers and employees in connection with any professional work undertaken by him.Conduct without consideration of cast.creed,sect,social status, and shall not perform and act against the interest of the ation.

Any 4 relevant points 6 Marks will be awarded

(OR)

- 9.a Write a notes on The Chernobyl Disaster 6 M
When It Happen----- 1M
Consequences----- 2M
Environmental effect----- 1M
Conclusion----- 2M

- 9.b Write a notes on Code of ethics for ACM 6 M

Commitment to ethical professional conduct is expected of every member of the association for computing Machinery. The code shall be supplemented by a set of guidelines which provide explanation to assist members in dealing with the various issues contained in the code. It is expected that the guidelines will be changed more frequently than the code.

The code and its supplemented Guidelines are intend to serve as a basis fo Ethical decision making in the conduct of professional work. They may serve as a basis for judging the merit of a formal complaint pertaining to violation of professional ethical standards.

Any 4 relevant points 6 Marks will be awarded

Signature of HOD

Signature of Evaluators.

S.NO	Name of The faculty	College Name	Signature