

COLLEGE OF ENGINEERING, PUNE
(An Autonomous Institute of Government of Maharashtra)
Affiliated to University of Pune
Semester End Examination
Professional Ethics and Human Values

Semester - I

Programme: F.Y. B. Tech
Academic Year: 2011-12
Duration: 3 Hours

Divisions: VI, VII, VIII, IX, X
Date: 18.11.2011
Max. Marks: 50

Instructions:

1. Figures to the right indicate full marks.
 2. Begin each answer on a fresh page. Neatness will be rewarded.
 3. Mobile phones are not permitted in the examination hall.
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Answering Q1 is compulsory. Answer Q1 and any *FOUR* out of the remaining questions.

Q1. Re-write the following statements making suitable corrections as necessary: (10 marks)

1. Simple technology is suitable for large scale production of goods, employing sophisticated machines and equipment.
2. Appropriate technology is developed to cater to the needs of rich industrial houses to help them earn high profits.
3. Whistle blowing is the ethical way in which a policeman stops traffic on the road.
4. Appropriate technology finds many applications, especially in big industrial cities.
5. The use of plastic bags is environmentally sustainable because they are bio-degradable.
6. A profession is any occupation that helps us to earn money.
7. Appropriate technology is highly capital intensive and uses imported resources for manufacture.
8. Over the centuries, the toxicity of e-waste is lost compared with toxicity of radio active materials.
9. Negative social responsibility means not being socially responsible.
10. Mass production makes use of human resources and employs intermediate technology.
11. High technology is the right technology for the cottage industry.
12. The term "moonlighting" means walking in the park on a full moon night.
13. Appropriate technology is difficult to operate and needs to be maintained by highly skilled persons.
14. Moral dilemmas arise because of one's ability to choose between different moral alternatives.
15. A lie spoken to achieve a good result is ethically justifiable.
16. The technology of production by the masses is harmful to ecology.
17. The headquarters of MNCs are located away from their home countries.
18. MNCs do business in their home countries because labour is expensive in there.
19. Globalisation means locating countries on the globe in a Geography class.
20. The ozone layer is useful because it allows us to enjoy the benefit of ultra violet rays.

Q2. (a) What is *appropriate technology*? How does it differ from the concepts of *high technology* and *simple technology*? Explain clearly with suitable examples. (5 marks)

Q2. (b) What kind of technology is used for large scale manufacture of goods? Is such technology suitable for a highly populated country like India? Why or why not? (5 marks)

Q3. (a) What is a *Multinational Corporation*? Discuss the role of multinational corporations bringing out their advantages and disadvantages from the ethical angle. (5 marks)

Q3. (b) What is meant by *transfer of technology*? Is it always an advantage to import technology from more developed countries? Explain from the ethical point of view. (5 marks)

Q4. (a) What is meant by the term *Social Responsibility*? Why is it important for engineers? Distinguish between *Negative Social Responsibility* and *Positive Social Responsibility*. (5 marks)

Q4. (b) What is *Whistle Blowing*? What are the hazards of *whistle blowing*? Illustrate your answer with examples of whistle blowing that have recently been in the news. (5 marks)

Q5. (a) Explain the meaning and relevance of *Environmental Ethics* for an engineer. What is the role of an engineer in ensuring environmental safety? (5 marks)

Q5. (b) Why do we say that an engineer is also an *experimenter*? Enumerate and explain the duties of an engineer as a *social experimenter* in protecting the environment. (5 marks)

Q6 Write short notes on any *FOUR* of the following environmental hazards: (10 marks)

- (a) Plastic waste
- (b) Deforestation
- (c) e-waste
- (d) Industrial waste
- (e) Ozone layer depletion
- (f) Global warming
- (g) Acid rain