



PART B — (5 × 16 = 80 marks)

11. (a) (i) How did Gilligan view the three levels of moral development initiated by Kohlberg? (12)  
(ii) Discuss three types of inquiry. (4)  
Or
- (b) (i) Discuss the different models of professional roles. (8)  
(ii) Explain the skills needed to handle problems about moral issues in engineering ethics. (8)
12. (a) (i) Discuss on the roles played by the codes of ethics set by professional societies. (10)  
(ii) Compare and contrast engineering experiments with standard experiments. (6)  
Or
- (b) (i) Explain in detail the Challenger accident. What are the ethical problems involved in this? (12)  
(ii) Discuss Research Ethics. (4)
13. (a) (i) Discuss the concept in risk-benefit analysis. (8)  
(ii) Explain in detail the effect of information on risk assessment with an example. (8)  
Or
- (b) Discuss the concept of safety exists in the Chernobyl Case Studies. (16)
14. (a) (i) What is Intellectual Property Rights? Explain various elements of IPR in detail. (10)  
(ii) Discuss human rights and professional rights in an engineering field. (6)  
Or
- (b) (i) Define collective bargaining. Explain the role of collective bargaining in workplace rights and responsibilities. (12)  
(ii) Discuss on collegiality and loyalty. (4)
15. (a) (i) Discuss the ethical issues related to computer ethics and internet. (10)  
(ii) Write briefly on environmental ethics and weapon development. (6)  
Or
- (b) (i) Explain the role of engineers as managers. (8)  
(ii) Write briefly Engineers used as Expert Witness. (8)