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Question Paper Code: 48701

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2018

Eighth Semester

Civil Engineering

14UME801 - PROFESSIONAL ETHICS

(Common to ALL branches)

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

(Answer all Questions)

1. Social conventions about right or wrong conduct related to CO1- R
(a) Morals (b) Ethics (c) Social concerns (d) All the above
2. Moral Autonomy deals with CO1- R
(a) Respecting others (b) Self-determining
(c) recognition and reward systems (d) Public good
3. General features of morally responsible engineers CO2- R
(a) Conscientiousness (b) Accountability
(c) Comprehensive perspective (d) All the above
4. Case study means CO2- R
(a) problem solving (b) Imaginary or real situation
(c) Filling an incident (d) decision making

5. Disaster means CO3- R
- (a) Accident (b) Huge accident
- (c) Seriously disruptive event (d) Loss of damage
6. Knowledge required to assess the risk CO3- R
- (a) Dedication (b) Management skill (c) Experience (d) Analytical testing
7. Central Elements of Collegiality are CO4- R
- (a) Commitment (b) Connectedness
- (c) Cooperation (d) All the above
8. IPR means CO4- R
- (a) Intellectual Property Rights (b) Intellectual Preventive Rights
- (c) Intellectual Productive Rights (d) None of the above
9. Computer Ethics Issues CO5- R
- (a) Stealing computer (b) Cyber Squatting
- (c) Political usage (d) Technological usage
10. CSR deals with CO5- R
- (a) Social concerns (b) Environmental concerns
- (c) both (A)&(B) (d) None of the above

PART – B (5 x 2= 10Marks)

11. Define Engineering Ethics. CO1- U
12. Differentiate scientific experiments and engineering projects. CO2- U

13. Define Risk. CO3- U
14. What are the two senses of Loyalty? CO4- U
15. Give the usage of the code of conduct? CO5- U

PART – C (5 x 16= 80Marks)

16. (a) (i) Explain the steps used to solve an Ethical problem. CO1 -U (8)
(ii) Explain the core qualities of professional practitioners. CO1 -U (8)
- Or
- (b) Explain the various stages of Kohlberg’s moral development. CO1 -U (16)
17. (a) Summarize the roles of “Codes of Ethics” of various professional engineering societies and indicate the relative importance of the various categories of these roles. CO2- Ana (16)
- Or
- (b) Discuss in detail about challenger disaster case study. CO2- Ana (16)
18. (a) Explain in detail about about the concept of “Risk – Benefit Analysis”. CO3- U (16)
- Or
- (b) (i) Compare safety and risk. CO3- Ana (6)
(ii) Compare the reasons for Nuclear Reactor accident that occurred in Three Mile Island and Chernobyl. CO3- Ana (10)
19. (a) (i) Explain the need for Confidentiality. CO4 - Ana (8)
(ii) Explain in detail about Occupational Crime. CO4 - Ana (8)
- Or
- (b) Explain the elements of IPR in detail. CO4- U (16)
20. (a) (i) What are ways to promote an Ethical climate in an organization? CO5- U (8)
(ii) What are the important forms of Conflicts? CO5- U (8)

Or

- (b) (i) Explain how engineers should act as managers, consultants, leaders. CO5- U (8)
- (ii) Discuss role of Engineers in Weapons development in defence sector. CO5- U (8)