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Question Paper Code: 48701

B.E./B.Tech. DEGREE EXAMINATION, DEC 2021

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

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|-----|--------------------------------------|------------------------------------|--------|
| 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)

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| 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)

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| 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”.
- 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)