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Question Paper Code: 58701

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

Eighth Semester

Civil Engineering

15UME801 - PROFESSIONAL ETHICS

(Common to CSE,ECE,EEE,MECH, IT, Chemical, Agriculture and biomedical Engineering)

(Regulations 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Which of these is a factor that affects ethical and unethical behavior? CO1- R
(a) Ethical dilemma (b) Diversity
(c) Teamwork (d) Open communication
2. The three major types of ethical issues include except? CO1- R
(a) Communication issues (b) Systematic issues
(c) Corporate issues (d) Individual issues
3. Ethical behavior is a matter of CO1- R
(a) Juggling standards and business needs (b) Obeying the rules
(c) Acting on a considered judgment (d) None of these
4. A written statement of policies and principles that guides the behavior of all employees is called CO2- R
(a) code of ethics (b) word of ethics
(c) ethical dilemma (d) None of the above
5. An element of collegiality that value one's peers for their professional expertise CO2- R
(a) Commitment (b) Connectedness (c) Co-operation (d) Respect

6. A right to exercise certain kinds of power. CO2- R
 (a) Institutional authority (b) Expert Authority
 (c) Institutional duty (d) Morally-Justified right
7. Which of the following is not feature of an engineering project? CO3- R
 (a) Experimental Control (b) Outcome Uncertain
 (c) Learning from the past (d) Partial Ignorance
8. Which is not the feature of Industrial Standards? CO3- R
 (a) Interchangeability (b) Safety (c) Quality (d) Trademark
9. Which one is the factual issue in the space shuttle Challenger Accident? CO3- R
 (a) No escape mechanism (b) No Informed Consent
 (c) No Warning Signal (d) Field Joint gave away
10. Which one is not recommended when wealthy countries do business in less economically developed countries? : CO3- R
 (a) Simply adopt country's safety laws (b) Informed Consent
 (c) Pay more for extra risks (d) Promoting most good for most people

PART – B (5 x 2= 10 Marks)

11. Demonstrate the method used to solve an Ethical problem. CO1- R
12. Illustrate the steps in confronting Moral Dilemmas. CO1- R
13. Explain the two main elements which are included to understand informed consent. CO2- R
14. Demonstrate Multinational Corporation CO3- R
15. Summarize the ethical issues that arise in environmental degradation CO3- R

PART – C (5 x 16= 80 Marks)

16. (a) Make use of Gilligan's & Kohlberg's Theory of moral development and develop a procedure for a ethical problem. CO1- App (16)
- Or
- (b) Choose the skills needed to handle problems about moral issues in engineering ethics. CO1- App (16)

17. (a) Analyze the challenger disaster could have been avoided by engineers. CO2- Ana (16)
- Or
- (b) Examine how Engineering project differ from standard experimentation. CO2- Ana (16)
18. (a) Examine under what conditions would you say it is safe to launch a shuttle without an escape mechanism for the crew?. CO2-Ana (16)
- Or
- (b) Examine the SRBs inherently too dangerous to use on manned spacecraft? If so, why are they part of the design? CO2-Ana (16)
19. (a) Construct the ethics to be followed in detail about computer. CO3- App (16)
- Or
- (b) Develop an engineer's involvement in weapons. CO3- App (16)
20. (a) Categorize the three senses of relative and explain the moral posed by the revolutionized communication using computers to privacy. CO3- Ana (16)
- Or
- (b) Classify in detail on: Engineer as expert witness & Engineer as good managers. CO3- Ana (16)

