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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B. Tech. I Year I Semester Supplementary Examinations December-2021**

**HUMAN VALUES & PROFESSIONAL ETHICS**

(Common to CE, EEE, ME & AGE)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- 1 a What are human values? List key principles that compose the foundation of human values. **6M**
- b Explain why the study of human values is very essential to engineers. List few important human values and sub values. **6M**

**OR**

- 2 a What is meant by the virtue term integrity? What are the different accounts of integrity? **7M**
- b What is work ethic? Discuss briefly the various elements of it? **5M**

**UNIT-II**

- 3 a Write short notes on 'senses or dimensions of engineering ethics'. **6M**
- b What is morality? What are moral reasons? **6M**

**OR**

- 4 a Explain Gilligan's theory of moral development? **6M**
- b What is consensus and controversy? Explain relationship between autonomy and authority with an example? **6M**

**UNIT-III**

- 5 a What are the similarities between engineering experiments and standard experiments? **6M**
- b What do you understand by informed consent in the context of engineering as experimentation? **6M**

**OR**

- 6 a What are the general responsibilities of engineers to society? **7M**
- b Explain about conscientiousness? **5M**

**UNIT-IV**

- 7 a Define safety? Enumerate criteria for ensuring safe design? **7M**
- b Define risk? What are the factors influencing risk? **5M**

**OR**

- 8 a What is meant by respect for authority? How institutional authority differs from expert authority? **5M**
- b What is meant by collective bargaining? Brief the process of collective bargaining? **7M**

**UNIT-V**

- 9 a Explain the meaning of environmental ethics. What are the various environmental concerns for engineers. **6M**
- b What does professional codes of ethics say about the environment? **6M**

**OR**

- 10 What are the 'Ten commandments of computer ethics'? **12M**

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