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

B.Tech I Year I Semester Supplementary Examinations Feb-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**
- 2 a What is meant by empathy? What is difference between empathy and sympathy? **6M**
- b What are benefits of empathy? **6M**

UNIT-II

- 3 a Define ethics. Describe any four disciplines of ethics? **6M**
- b Why is it necessary for engineering students to study engineering ethics? **6M**

OR

- 4 a What is meant by utilitarianism? Discuss the two versions of utilitarianism. **6M**
- b What are the similarities between duty ethics and right ethics? **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 features of morally responsible engineers? **7M**
- b What are the requirements for engineers to act as responsible engineers in the context of engineering as social experimentation? **5M**

UNIT-IV

- 7 a Brief about voluntary risk and controlled risk with examples? **6M**
- b Explain in detail the effect of why both low-risk and high-risk products are costly? **6M**

OR

- 8 a Define the terms confidentiality and confidential information? What are the external responsibilities of engineers? **6M**
- b Explain the different types of conflicts of interest with suitable examples? **6M**

UNIT-V

- 9 a What is meant by computer ethics? Explain how the computers can be used as the instrument of unethical behavior? **6M**
- b Write short notes on Hacking and Computer virus? **6M**

OR

- 10 a Discuss an engineer's involvement in weapons work. Why do some engineers refuse to do war works? **6M**
- b What are the defense industry problems? **6M**

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