

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION(S), OCTOBER 2019

Course Code: FS482

Course Name: RESPONSIBLE ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 2 marks.

		Marks
1	Define service learning.	(2)
2	Define micro-ethics and macro-ethics.	(2)
3	What reasons lead to many repetitions of past mistakes?	(2)
4	Define safety.	(2)
5	What is meant by collective bargaining?	(2)
6	What are the types of conflicts of interest?	(2)
7	What are MNCs?	(2)
8	Explain the meaning of moral leadership.	(2)

PART B

Answer all questions, each carries 3 marks.

9	List out the various time wasters.	(3)
10	Summarize the uses of ethical theories.	(3)
11	Explain moral autonomy.	(3)
12	List down the factors that influence perception of risk.	(3)
13	Explain briefly the elements of collegiality.	(3)
14	Explain work place discrimination.	(3)
15	What are the benefits of MNCs of doing their business in underdeveloped and developing countries?	(3)
16	Explain how computer can be used as instrument for unethical acts.	(3)

PART C

Answer six full questions, each carries 10 marks.

17	a) Define work ethics. Explain the elements of work ethics.	(5)
	b) Explain how cooperation and commitment contribute to professional excellence.	(5)

OR

18	a) Explain the role of yoga and meditation in stress management and professional excellence.	(6)
	b) Explain the qualities of a courageous professional	(4)

19 Explain moral dilemma, its causes and steps to solve moral dilemma. (10)

OR

20 Explain the theories of Kohlberg and Gilligan in the context of moral development. (10)

21 Explain the similarities and contrasts of engineering experiments and standard experiments (10)

OR

22 a) Explain the concept of balanced outlook on law quoting examples. (6)

b) List the conditions to be fulfilled for valid consent. (4)

23 Discuss the case study of “The Chernobyl Disaster.” List the reasons for the accident and its impact. (10)

OR

24 a) Explain the role of engineers to safeguard public from risk. (6)

b) Explain the types of risks (4)

25 Explain the elements of Intellectual Property Rights. (10)

OR

26 Explain the responsibility of engineers towards the outside world (10)

27 Explain the role of engineers as expert witness. (10)

OR

28 Explain in detail about environmental ethics and moral responsibility of engineers towards environment. (10)
