



**Technology and the Organisation**

**TECH 320 (Spring - 2021)**

**Assignment 2 - (15%)**

**Instructor: Milan Dordevic**

**Individual submission: Upload a clear version of your answers to Moodle.**

**Student name:.....**

**Student ID:.....**

1. Name the .pdf file with your ID number. Mention your name, ID as comments on top of the code.
2. Strictly, the submission file type should be .pdf file.
3. Assessment submission deadline is 13/04/2021 @23:59. A delay in assessment submission will result in the following grade deduction
  - Delay of 1 Day : 40% Deduction
  - Delay of 2 Days: 60% Deduction
  - Delay of 3 Days: 100% Deduction
4. In case of plagiarized submission, student will receive a notification email with the below penalty applied starting the date of the email:
  - Resubmission on the first day (within 24 hours after notification): 40% deduction
  - Resubmission on the second day after notification: 60% deduction
  - Failing to resubmit within two days after notification, the assessment will be graded with zero
5. Please check Banner for your Gradebook and Attendance.
6. AUM rules and regulations apply.

## Part 1 – Ethics at Workplace (100 Marks)

Suppose, you are working in a car company “WWW” in USA and as a professional you are responsible for developing diesel engines. For years your group has been fine tuning the design of the engines and developing better and better programs to increase the gas mileage (the number of miles that a vehicle can travel consuming specific fuel amount) of the engine. Then USA passes a law that limits the gas emission of the cars. Upon analysis you find out that your diesel engine design exceeds the permitted level of gas emission.

Your manager has given instructions to add a controller to the car so that when the car is being tested, the controller notifies the engine to go into a safety mode that is when the engine runs below normal power, but under allowable level of gas emission. He insists having this controller in all cars would decrease gas emission when they are being tested.

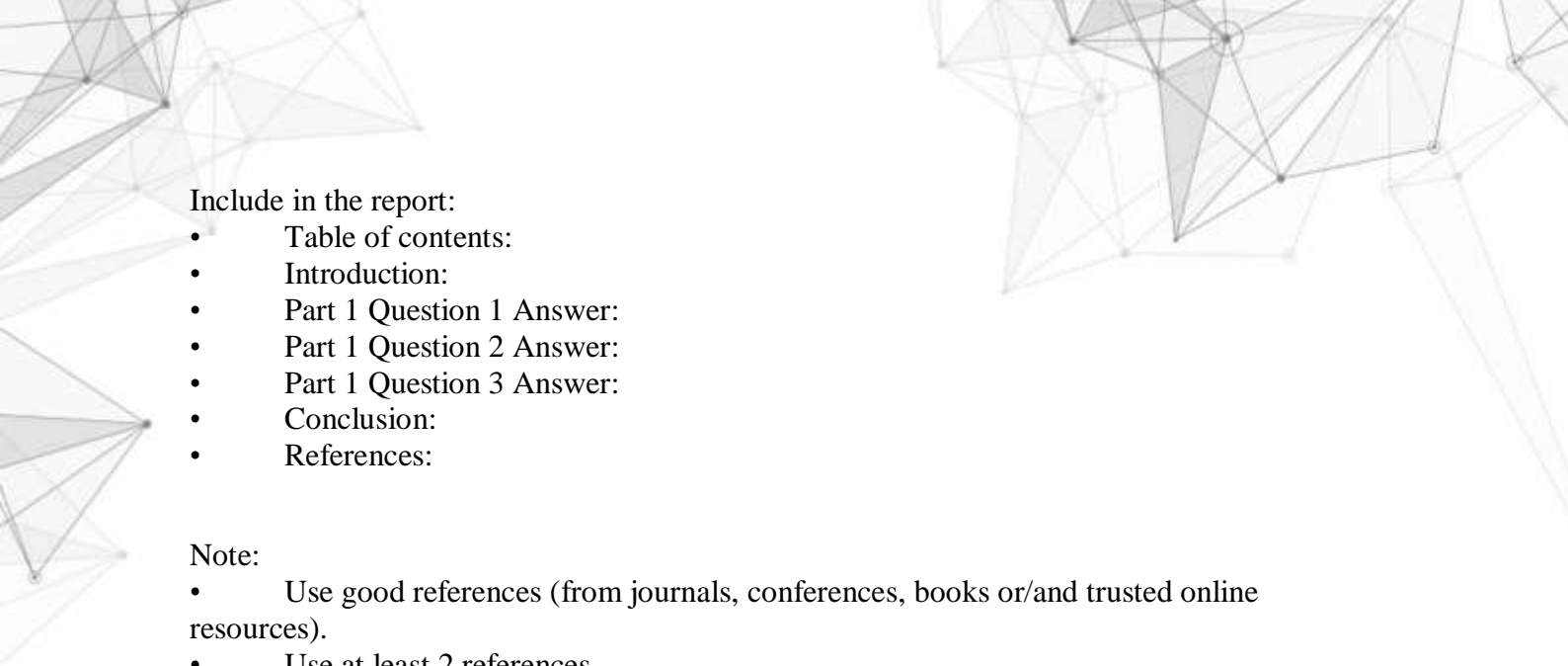
On the other hand, the controller exits the engine from the test mode when the car is on the road and engine is running normally, which takes the gas emission above the US-specified gas emission level.

So, by using these controllers your cars would pass the emission tests without decreasing the gas consumption level.

**Question 1: Analyze and discuss the ethical problem of this case study. (30 marks)**

**Question 2: Do you think you should implement your manager’s instructions? Discuss. (30 marks)**

**Question 3: As a Technology Professional, what would be your course of action(s)? (40 marks)**



Include in the report:

- Table of contents:
- Introduction:
- Part 1 Question 1 Answer:
- Part 1 Question 2 Answer:
- Part 1 Question 3 Answer:
- Conclusion:
- References:

Note:

- Use good references (from journals, conferences, books or/and trusted online resources).
- Use at least 2 references
- Include Citations in the report content (citing the references at the end of the report)