Industrial digital transformation IBE505

1.

a) What I would propose in order to improve the delivery time for the customers is to use drones to deliver the packages. The drones can drop off the package directly at the customer's house. The customer can, before delivery, mark the spot in a map app where they want the drone to drop off the package.
   To solve the tracking issue, I would propose to have live tracking, which means the customer can at all times go see on the map exactly where the package is located in the world.
b) I would propose to use the newest drone technology, together with artificial intelligence to solve the delivery time issue. To solve real-time package tracking I would want to use the new 5G network.
c) My role as CIO means that I have to keep track of the newest technologies that can benefit UPS at all times.
d) If there is a gap in the skills required to implement the newest solutions, I would send the employees to get lessons in what is required.
e) My solutions will impact climate action. This is because all fossil fuel driven trucks will be swapped out with drones that run on electricity, preferably clean, renewable electricity. It will also affect sustainable cities and communities. This is because we will remove so many trucks from the roads, and instead have the drones fly high in the air where most people won't notice them.

2.

a) I would propose to use virtual reality to solve the issue with running lab experiments. The newest VR technologies can make the students feel like they are in the same room working together. They can even use haptic feedback gloves to have an even more realistic experience.
b) I would propose that students must use remote desktop when they are taking an exam. This means that the desktop they are using can be programmed to only allow certain websites and programs to open. This can eliminate cheating and illegal action during exams.
c) The emerging technologies that would be used are VR technologies, which are getting better and better every day.
d) The challenges of online learning
e) Hopefully it will impact quality education. This is because it will make it possible for students to have their education even though they are not present physically on a campus.

3.

a) I would propose to use automation to perform certain tasks that healthcare personnel usually perform. This can be things like giving the right medicine,

performing surgeries, and even running the reception where people meet up at the hospital.

b) Technologies that can be used to solve this is artificial intelligence, 5G, and robotics.
c) Advantages of having this on the cloud is that the hospitals don't have to implement the infrastructure themselves at the hospital. The four cloud models: IaaS (infrastructure as a service), PaaS (platform as a service), SaaS (software as a service), FaaS (function as a service).
d) I would propose to use an external company to implement the solutions. Then they won't have to take time from the already short-staffed healthcare personnel.
e) It will impact good health and well-being, and even industry, innovation and infrastructure.

4.

a) Strategies
b) The covid-19 pandemic has sped up the digital transformation because it has forced people to work together without being at the same place physically. This means that digital solutions to make this experience the best possible had to be developed really quickly, as the pandemic hit.