Q1:

0. To improve customer and stakeholder experiences, we can implement Industry 4.0 technologies in the business model to enhance efficiencies of the company operations. It is the gateway to social and technological transformation, and it will help the company to come over many of its managerial problems. It collects data and then gives a more accurate output. It will also use its AI and Machine Learning technology to manage environmental damages and other global operations.
1. B. We can use cloud technology to manage inventory so the deliveries are not mismanaged, this will help shorten delivery time. Big data will help in real-time packaging tracking, working together with the cloud it will help the data being updated most of the times.

2. C. My role as a CIO within UPS would be to bring innovations to the company, to help every process in the business get better. I will deal with operations management closely the most, analyze data and then use it for future solutions.

3. D. To help bridge that gap, I will take help of Artificial Intelligence to produce the best solution which will help me improve skills of the company. It will not only bridge that gap but also improve other aspects of the business, resulting in improvement of operational effectiveness.

4. E. The SDGs my innovation in the business will impact are: “Industry, Innovation and Infrastructure”, “Decent Work and Economic Growth”, “Responsible Consumption and Production “and “Partnerships for the Goals”. Introduction of Industry 4.0 technologies like cloud and AI induced operations will help in developing infrastructure of the organization. It will also help in economic growth of the company as the technology will offer solutions for all of the aspects.

Q2:

0. The best digital solution for this type of hurdle will be implementing cyber-physical systems, augmented reality and simulation with security. This will be beneficial for the students and the teachers. Students will be able to feel the ambiance of labs through augmented reality and cyber-physical systems will help them get them a better feel of experiments. Industry 4.0 security also helps in protection from cheating the system.

1. The introduction of security systems would be real-time tracking of each student’s computer browser through which they will attempt the exam. Some examples would be like lockdown browser which helps the monitoring teachers to have a live view of students as well.

2. I will use the help of virtual reality and live-tracking systems to develop solutions for these problems, Machine Learning will also be implemented in it to make solution software learn by time so they can provide accurate fairness prediction and then act on it as well.

3. The major challenge that will impact online learning is the cost of all systems needed for it. Introducing all these solutions need huge capital by both the institutes and the students. Another challenge that online learning will face is that the students who want to cheat the system will produce new problems one after another but Industry 4.0 security will help in beating them by analyzing data briefly, online learning will be a hassle for both sides in the meantime. Environmental and geographical factors will always be a problem in online learning as no one can avoid natural hazards and interruptions.

4. Innovations, Decent Work and Partnership for Goals will play be positively impacted by the digital solution as it will play an important role with the gradual growth of the working community and help in more students to graduate without a hurdle. Which will help the global processes to work smoothly.

Q3.

0. To overcome these managerial problems, shifting the managing and inventory tasks to an AI based management system will be essential. It will help all the operational costs and shortage of staff. Cloud computing can help the hospitals to use minimal area for storing documents and other data based inventory.

1. Cloud computing and Artificial Intelligence will be implemented to accelerate the proposed transformations.

   C. Advantage of implementing this solution of the cloud will be easier management of the data and also helping lower the costs and workload in the long run. Disadvantage of implementing this solution to cloud is the security and the high implementing cost of cloud computing.

   1 D. They will have to depend on donations and funding from generous organizations and the government. This will help the services to be provided on the right time.

   2 E. Partnership for the Goals, Life On Land and Strong Institutions will have a positive impact. When hospital will work together with organizations which fund the healthcare, it will be a partnership between them. This whole process will be for the greater good, Life On Land.

Q4:

A. Offensive strategy is focused on achieving competitive advantage, defense strategy is focused on attacking the competitor in order to take him off. Some examples of defensive strategies is pricing war and of offensive strategy is Guerilla Marketing.

B. It means that the pandemic caused a huge transformation in technology development as they had a huge data collection which is used to later analyze and produce more solutions.

C. It is the cost of additional rework in a software development

D. The leading indicators of failure in industrial digital transformation is global inflation.

E. Lights out manufacturing is still only a manufacturing methodology and not a process, in which there is no need for any human presence on-site and only of machines. Which are supposedly needed to do all the work by themselves. Digital transformation is driving this method through better AI and Cybersecurity systems.