# Emerging Technologies IoT, Augmented Reality, Virtual Reality

# December 2022 Examination

# Q1. The Internet of Things, or IoT, is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. The Industrial Internet of Things (IIoT) takes networked sensors and intelligent devices and puts those technologies to use directly on the manufacturing floor, collecting data to drive artificial intelligence and predictive analytics. As a consultant to an Original Equipment Manufacturer (OEM), who wants to embrace this technology what are the potential benefits of this technology in Industrial Manufacturing that you will highlight to the firm? What are the challenges that these connected devices could bring that the firm needs to pay heed to? (10 Marks)

# Ans 1.

# Introduction:

The Internet of Things (IoT) is one of the most dynamic and path-breaking innovations in the info and communication innovation field. This system, attached with lots of mechanical, digital, item people, things, and animals, can be provided with UID (Special Identifiers) and has the power to transfer all collected data with the network without any collaboration of human beings or any type of human-computation indication. Over the last few years, numerous networks and modern technology have boosted swiftly up until stringent constraints on connecting several pre-existing devices like desktops, mainframes, tablet computers, notebook computers, and smart

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# Q2. The Indian retail industry has emerged as one of the most dynamic and fast-paced industries with the entry of several new players. The retail sector is experiencing exponential growth, with retail development taking place not just in major cities and metros, but also in Tier-II and Tier-III cities. With customer personalization and convenience being the center stage of most retail offerings, retailers have been experimenting with technology in store, via apps within their products. With the help of an example of a retail firm, elaborate how it uses IoT to improve operations and customer experience? (10 Marks)

# Ans 2.

# Introduction

The retail industry is among the most trending markets throughout the industrial platform around the world. Day after day, it has been enhancing its growth rate at a fast speed. Because the retail industry mainly deals with numerous points used for people's public or personal consumption or frequent uses, examining the data of the last few financial years, it is observed that the growth of the retail industry is enhanced 12% greater than the previous evaluation. In addition, throughout this Covid 19 pandemic, when individuals were locked in their residences, the retail industry

**Q3. Augmented Reality (AR) is a technology that redefines the space and adds a virtual covering or layer over objects with complete geographic specificity. It digitizes your surroundings by creating virtual content in the real world. The disruptive technology has positively impacted various industries. One such industry where AR is rapidly spreading and creating ripples of impact is healthcare, a sector that is always willing to implement or adopt new technologies to further enhance its productivity and efficacy level. On the other hand, Virtual Reality (VR) is used in hospitals for surgery simulation, phobia treatment, robotic surgery and skills training. One of the advantages of this technology is that it allows healthcare professionals to learn new skills as well as refreshing existing ones in a safe environment.**

# ****a. In your opinion, how can Augmented Reality (AR) and Virtual Reality (VR) be used to make it successful? (5 Marks)****

# ****Ans 3a.****

# Introduction:

During the covid19 period, when being physically present was impossible, the improvement of augmented Reality ended up being a creative tool with practical applications in the healthcare field. Yet, on the other hand, Virtual Reality (VIRTUAL REALITY) is an essential tool that

# Q3b. What are the different challenges in implementing such VR system? (5 Marks)

# Ans 3b.

# Introduction:

There is some critical relevance of VR (Virtual Reality) in the medical care market. Several assistances in therapeutic applications and various other detecting therapies have become the plan of a wide range of fields of expertise in Virtual Reality. For instance, many people who have lost their limbs can regain their arms or legs through digital replacement. If we talk about