**Emerging Technologies: IoT, Augmented Reality, Virtual Reality**

**September 2022 Examination**

**Q1. Which element in an IoT system is source of Big Data (2 Marks)? Mention one example of data-streaming application of IoT (2 Marks)? For what reasons the below-mentioned challenges are to be addressed in data-streaming application**

**a. Low latency of IoT data**

**b. Data availability to subscribers**

**c. High data rates for reliable delivery of IoT data (10 Marks)**

**Ans 1**

Sensors - Sensor data is the output of a device that detects and responds to some type of input from the physical environment. The output may be used to provide information or input to another system or to guide a process. Weather Information gathering due to the presence of sensors that give real-time information

**Ans 1a**

Low latency of IoT data - when there is low latency or minimal latency in Data streaming there will be minimal delay of information from the source to the end user this will increase

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**Q2. You are the CIO of an organization which is into Retail sector as well as manages the Supply Chain for the retail outlets. You want to present your viewpoint on how IoT can help you achieve the above objectives. Highlight the five different applications of IoT in each of the Retail (5 Marks) and Supply Chain Management (5 Marks) sectors that can benefit to your organization? (10 Marks)**

**Ans 2.**

**Introduction**

The Internet of Things (IoT), refers to a network of connected devices, objects, and sensors, that collect and communicate information. When applied to the global supply chain, IoT technology can help businesses serve their customers better, while also saving the business money and improving overall efficiency. Businesses can now place IoT sensors with a variety of components to help manage inventory more efficiently. With an IoT inventory system, the supply levels of several critical elements can be monitored in real-time to help inform business decisions and prevent shortages. The data from these systems can even be analyzed

**Q3. Answer the question based on the following situations?**

**a. What are the benefits in smart city project from integrating the technologies of SMAC stack framework? (5 Marks)**

**Ans 3a.**

**Media**- Mobile computing provides the flexibility to access data anytime and anywhere. With a mobile device, the end user can get first-hand information e.g weather updates

Analytics - Using big data, you can mine valuable information which enhances customer engagement with your brands, products, or services, and in this way, companies can obtain

**b. Discuss the use of augmented reality (AR) in healthcare sector? (5 Marks)**

**Ans 3b**

Medical Training **-** Augmented reality in educating the young medical students about human anatomy and various other concepts in a rather detailed and realistic way. Augmented reality can be integrated with textbooks and curriculums can be more technology-friendly as it is