**Emerging technologies**

**Internal Assignment Applicable for June 2020 Examination**

**1. Urban performance currently depends not only on a city's endowment of hard infrastructure (physical capital), but also, and increasingly so, on the availability and quality of knowledge communication and social infrastructure (human and social capital). The latter form of capital is decisive for urban competitiveness. Against this background, the concept of the “smart city” has recently been introduced as a strategic device to encompass modern urban production factors in a common framework and, in particular, to highlight the importance of Information and Communication Technologies (ICTs) in the last 20 years for enhancing the competitive profile of a city. The demand for smart cities has increased in recent years. In order to meet the demand of a smart city project in a country like India, with the help of any smart city project in India explain what are some of the key elements for such smart cities and also mention their importance.**

**Source: https://www.tandfonline.com/doi/abs/10.1080/10630732.2011.601117**

**Answer**: There is no official definition or meaning of smart city so it means different to different people as per their understanding and thinking. Smart city in India may not qualify for this title in another country as it also depends on the level of development, willingness to change and reform, resources and aspirations of the city residents. A smart city would have a different connotation in India than, say, Europe. As per my view, some points are there which must be there in a smart city definition like developed infrastructure, best services available to all, cleanliness, good use of technological advancements etc.

**Key elements of smart city**

**Smart Governance**: “SMART Governance” is about the future of the public services, SMART Governance utilize technology such as business application to facilitate and support better planning,

**2. You have been assigned as a part of a committee in the city to identify where IoT can be used to promote areas in healthcare and pharmaceuticals. In your opinion, what are those areas where IoT can be used in this sector?**

**Answer**: As we know that the healthcare industry is booming all over the world, India has a higher level of spending on healthcare among all the other Asian countries. Healthcare sector is using advanced technologies. Health agencies will have to opt for latest technologies if they want to distinguish themselves from other agencies. A managed global network which makes

use of the latest communication technologies can facilitate increased international progress and co-operation in health sector.

It is absolutely essential to increase the level of efficiency for the development and prosperity of an organization. The hospitals, having accepted the responsibility of serving the social interests, need to focus on the

**3. Augmented Reality (AR) is an emerging form of experience in which the Real World (RW) is enhanced by computer-generated content tied to specific locations and/or activities. Over the last several years, AR applications have become portable and widely available on mobile devices. AR is becoming visible in our audio-visual media (e.g., news, entertainment, sports) and is beginning to enter other aspects of our lives (e.g., e-commerce, travel, and marketing, education) in tangible and exciting ways. Facilitating ubiquitous learning, AR will give learners instant access to location specific information compiled and provided by numerous sources. Educators around the globe today have realized that AR/VR are big breakthroughs when it comes to learning — for a method as well as outcomes. AR has great potential in democratizing the educational process and making it a personalized learning experience for learners of all stripes. Simply put, augmented reality or AR is a multi-sensory interactive experience that involves real-world elements in a virtual environment. It is known to offer perceptually-enriched experiences to users by using real-world elements and adding a layer of information or visual aid on top of it in a natural manner. The most common examples of AR technology is seen in animated emojis these days on smartphones such as Apple iPhones, Samsung Galaxy series and more. In the industrial context, AR applications can help with on-the-go learning for maintenance and troubleshooting, systems maintenance work and other computer-aided learning and training. The primary reasons why AR is believed to be the future of learning and education include better learning retention, personalised learning experiences, increased possibilities of experimentation, reduced reliance on learning by rote, empowering educators and learners, encouraging active learning. Classrooms in the future will not look like they do today. AR will see a prominent push in the next 3 to 5 years in India, and most schools will have dedicated tools. Higher education will see faster adoption for AR tools, given that the technology is already present in such institutions.**

**(Source: https://inc42.com/features/what-is-the-future-of-edtech-and-learning-in-india-from-an-ar-vr-lens/)**

**a. What is AR and explain its benefits in the education sector?**

**b. Give an example of educational startups that provide AR solutions to educational institutes. What are the certain challenges in adopting AR by educational institutes?**

**Answer**: a) In this technological world, you find so many new technologies coming up with great features and usefulness and augmented reality is one of them. This is the new concept which has gained importance in last few years and now used in various fields such as education, tourism, commerce etc. Augmented reality (AR) adds digital elements onto a smartphone camera, creating an illusion that holographic content is a part of the physical world around you. In contrast with Virtual Reality (VR), you are not immersed in the whole artificial environment. AR alters the surroundings a bit by adding 3D objects, sounds, videos, graphics to it.

Augmented reality these

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