

**Chapter 2: Emerging Trends:**

Q1. List some of the cloud-based services that you are using at present.

Q2. Write a short note on the following:

- a) Cloud computing
- b) Big data and its characteristics

Q3. Explain the following along with their applications.

- a) Artificial Intelligence
- b) Machine Learning

Q4. Differentiate between cloud computing and grid computing with suitable examples.

Q5. What is on-demand service? How it is provided in cloud computing?

Q6. Write examples of the following:

- a) Government provided cloud computing platform
- b) Large scale private cloud service providers and the services they provide

Q7. A company interested in cloud computing is looking for a provider who offers a set of basic services such as virtual server provisioning and on-demand storage that can be combined into a platform for deploying and running customised applications. What type of cloud computing model fits these requirements?

- a) Platform as a Service
- b) Software as a Service
- c) Infrastructure as a Service

Q8. If Government plans to make a smart school by applying IoT concepts, how can each of the following be implemented in order to transform a school into IoT enabled smart school?

- a) e-textbooks
- b) Smart boards
- c) Online tests
- d) Wifi sensors on classrooms doors
- e) Sensors in buses to monitor their location
- f) Wearables (watches or smart belts) for attendance monitoring

Q9. Five friends plan to try a startup. However, they have a limited budget and limited computer infrastructure. How can they avail the benefits of cloud services to launch their startup?

Q10. Governments provide various scholarships to students of different classes. Prepare a report on how blockchain technology can be used to promote accountability, transparency and efficiency in distribution of scholarships?