

Chapter - 13 Current Trends and Technologies

1. The activity that we perform with the use of a computer is generally termed as **computing**.
2. The term **communication** refers to capabilities of internet connectivity and phone usages.
3. The mobile devices today come with an inbuilt **operating systems** and set of applications.
4. **Bluetooth, Wi-Fi, GPS** etc. are the communication technologies.
5. Cellular data services are **GSM, CDMA, FPRS and 3G**.
6. **Wi-Fi** is the most popular means of communication used for wireless data transfer within a fixed location.
7. **1G** services was based on analog signaling and reached the data speed of 19.2 kbps.
8. The **GPRS** technology is used to allow the mobile phone connect to the internet.
9. **Bluetooth** is used for exchanging data over short distances.
10. **Inmarsat** is the oldest satellite phone operator.
11. **Thuraya** satellite phone covers the two third of the world's population to communicate using satellite phones.
12. **Cloud computing** allows users to have complete access of their data or resource from any part of the world.
13. **RFID, Biometrics, GPS and Speech recognition** that are used for identifying objects.
14. **Salesforce.com** is one of the most used cloud service for customer relationship management (CRM) software.

15. The **IaaS** providers are Windows Azure Virtual Machines, Google Compute Engine and HP Cloud.
16. In 2008, Beijing Summer Olympic Games, **RFID** technology was used for high tech ticketing and food tracking.
17. Animal tracking has been one of the earliest applications of **RFID**.
18. **Biometric** involves identification of humans based on their characteristics or behavior.
19. The **GPS** is one of the widely used systems for navigation application.
20. The **GPS** system was originally intended for military applications.
21. The **NAS** device may consist of a single Terabyte hard disk or array of such hard disks.
22. Some of the **free online storage** options are ADrive, 4shared, Mozy, Dropbox, DivShare.
23. IBackup and Amazon S3 are the examples of **paid storage** options.
24. The robot manufactured by Sony called **ORIO (Quest for cuRIOSity)** can move freely, play with golf ball and can respond to verbal instruction.
25. **Chandrayan – 1** was launched in **October 2008** by ISRO.
26. The field of **Artificial Intelligence** intends to provide a computer the ability to acquire knowledge and use it in real time scenarios.
27. **Google** has succeeded in introducing the Google driverless car.
28. The **sleep mode** function of computer monitors was one of the first results of green computing initiative.
29. The main goal of **green computing** initiative is to minimize the environmental impact and maximize economic viability when using a computing resource.
30. Full Form
 - PAN **Personal Area Networks.**
 - GSM **Global System for Mobile.**

- CDMA **Code Division Multiple Access.**
- GPRS **General Packet Radio Service.**
- CRT **Cathode Ray Tube.**
- GPRS **General Packet Radio Service.**
- LCD **Liquid Crystal Display**
- LED **Light Emitting Diodes.**
- GPRS **General Packet Radio Service.**
- MMS **Multimedia Messaging Service.**
- WAP **Wireless Application Protocol.**
- Wi-Fi **Wireless networking Protocol.**
- IaaS **Infrastructure as a Service.**
- PaaS **Platform as a Service.**
- RFID **Radio Frequency Identification.**
- PDA **Personal Digital Assistant.**
- IEEE **Institute of Electrical and Electronics Engineers.**
- NAS **Network Attached Storage.**