1. Which device is used to connect multiple computers in a Local Area Network (LAN)?

Ans :: c) Switch

2. A standard deck of cards contains 52 cards, which includes 26 red cards (hearts and diamonds) and 26 black cards (clubs and spades). If one card is drawn at random, what is the probability that it is either a heart or a diamond?

Ans :: a) ½

3.Convert 100 decimal to binary

Ans :: a) 1100100

4.A solar cell is a \_\_\_\_\_\_\_\_\_\_\_

Ans :: d) P-N Junction

5.Which protocol is used for secure web browsing?

Ans :: b) HTTPS

6.When was the first version of ChatGPT released?

Ans :: c) 2022

7.What technology does Google Pay use for secure, contactless payments in stores?

Ans :: b) Near Field Communication (NFC)

8. Which data structure follows the LIFO (Last In, First Out) principle?

Ans :: b) Stack

9.Which of the following is a type of non-volatile memory?

Ans :: C) ROM

10.Which company developed the first commercially available quantum computer?

Ans :: d) D-Wave

11.Which communication protocol is commonly used in microcontrollers?

Ans :: b) SPI

12.Which microcontroller is commonly used for heartbeat sensing applications?

Ans :: b) ESP32

13.Which of the following is a type of cyber attack?

Ans :: a) SQL Injection

14.Which fundamental technology do mobile payment apps like Paytm and Google Pay use for transactions?

Ans :: c) Unified Payments Interface (UPI)

15.What frequency range is the High Frequency band?

Ans :: d) 3 to 30 MHz