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

a) Blockchain

b) Near Field Communication (NFC)

c) Unified Payments Interface (UPI)

d) Internet of Things (IoT)

d) Internet of Things (IoT)

11.Which communication protocol is commonly used in microcontrollers?

a) TCP/IP b) SPI

c) HDMI d) USB 3.0

**THANK YOU**

15.What frequency range is the High Frequency band?

a) 100 kHz b) 1 GHz

c) 30 to 300 MHz d) 3 to 30 MHz

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

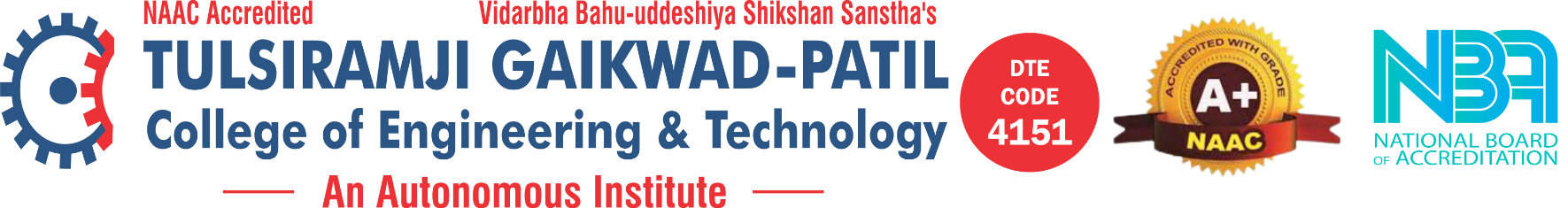
a) FSR402 b) ESP32

c) SPO2 Sensors d) MPX5050GP

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

a) SQL Injection b) Cloud Storage

c) Multi-Factor Authentication d) Data Encryption



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

a) Bluetooth b) Near Field Communication (NFC)

c) Wi-Fi Direct d) Infrared Signals

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

a) RAM b) Cache

c) ROM d) Registers

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

a) IBM b) Google

c) Microsoft d) D-Wave

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

a) Queue b) Stack

c) Linked List d) Hash Table

6.When was the first version of ChatGPT released?

a) 2018 b) 2020

c) 2022 d) 2023

3.Convert 100 decimal to binary

a) 1100100 b) 1101001

c) 1010110 d) 1101010

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?

a) 1/2 b) 1/4

c) 1/13 d) 1/26

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

a) Modem b) Router

c) Switch d) Printer

5.Which protocol is used for secure web browsing?

a) HTTP b) HTTPS

c) FTP d) TCP

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

a) P-type semiconductor b) N-type semiconductor

c) Intrinsic semiconductor d) P-N Junction

10 Marks

**ROUND -1**