1. Astro Pi is a space craft designed based on:

STM32

Arduino

Raspberry Pi

ESP32

1. How many wires used in I2C communication except VCC and GND?

2

1

0

4

1. Which of the following about the I2C protocol is NOT correct：

I2C has two lines, SCL and SDA

SCL is used for clock and SDA is used for data

I2C follows master slave architecture

I2C is a half duplex communication

1. Which of the following about the SPI protocol is NOT correct：

SPI is a four wire protocol

SPI supports clock stretching

I2C is slower than SPI

SPI is full duplex communication

1. Which of the following program isn’t used for designing a PCB?

Fritzing

KiCad

Solid Works PCB Suite

Microsoft Word

1. Which one of the following about OBC PCB is NOT correct:

We use Raspberry Pi as the main MPU

Raspberry Pi and sensors communicates over SPI

SDS011 is a PM2.5 Dust sensor

OBC PCB includes temperature, humidity and pressure sensors.

1. Which one of the following about Raspberry Pi GPIOs is NOT correct:

TX pin of the Raspberry Pi should connect to the TX pin of the sensor.

RX pin of the Raspberry Pi should connect to the TX pin of the sensor.

All GND pins should be connected to the Ground.

3v3 and 5v are the power lines on the Raspberry Pi.

1. The word ‘PCB’ stands for:

Printed Circuit Board

Project Control Board

Power Control Board

Project Circuit Board