## Ans to the Q No !

To degin the coal mining system given in the que to different input senson are required to the question one sensor takes input to measure the temperature and another sensor take input to masure humidity. So temperature sensor and humidity senson are used to produ desired output. In this case, external input intenface pins are used for sencing temperature and humidity. For this temperature and humidity sonson calibnation cincuit is used who is an interfacing for the sensor input - Here ealibration circuit is used as an interface to convent the sensor inputs into machine underdund language, so that the maching can under stood the input measure temperature and humidity.

Then this converted sonsor inputs are passed to a microcontroller to compute the actual program. Microcontroller is used for the low end input or sensor input as the task is. After hat drive the measured values by actuator of temperature and hunidity will show output in the monitor. And this is the mechanism for the regulared coal mining system

## Ans to the a No2

He offers the speed of 10 Gbps which is almost double transfer speed of 10 Gbps which is almost double transfer speed of its predecessor USBB. It offered 20 v and 5A power while charging as the other USB 5v and 1.5A USA @ allows to plug in any device which the others USB not. USB type C cable is used to charge laptop which is impossible to other USB. Type @ is also capable of doing multiple function mostly used because of its efficiency in data encoding while whalle it to do in faster way. Type C is better than it prodecessors in all sector.