

Sl. No.	Question	Answer	Mark
1	Q.1. Define the term 'Electronics'.	Electronics is the study of electronic devices and circuits.	10
2	Q.2. What is a diode?	A diode is a semiconductor device that allows current to flow in one direction only.	10
3	Q.3. What is a transistor?	A transistor is a semiconductor device used to amplify or switch electronic signals.	10
4	Q.4. What is an integrated circuit (IC)?	An integrated circuit (IC) is a semiconductor device that contains multiple electronic components on a single chip.	10
5	Q.5. What is a microcontroller?	A microcontroller is a small computer on a single chip that can be programmed to perform specific tasks.	10
6	Q.6. What is a digital signal?	A digital signal is a signal that has discrete values, typically represented by binary digits (0 and 1).	10
7	Q.7. What is an analog signal?	An analog signal is a signal that has continuous values, representing a physical quantity.	10
8	Q.8. What is a digital-to-analog converter (DAC)?	A DAC is a device that converts digital signals into analog signals.	10
9	Q.9. What is an analog-to-digital converter (ADC)?	An ADC is a device that converts analog signals into digital signals.	10
10	Q.10. What is a microprocessor?	A microprocessor is a central processing unit (CPU) on a single chip that can perform arithmetic and logic operations.	10
11	Q.11. What is a microcomputer?	A microcomputer is a computer system that includes a microprocessor, memory, and input/output devices.	10
12	Q.12. What is a personal computer (PC)?	A personal computer (PC) is a computer system designed for individual use, typically consisting of a monitor, keyboard, and system unit.	10
13	Q.13. What is a laptop computer?	A laptop computer is a portable computer system that can be used on a desk or taken on the go.	10
14	Q.14. What is a tablet computer?	A tablet computer is a portable computer system that is thin and flexible, typically used for mobile computing.	10
15	Q.15. What is a smartphone?	A smartphone is a mobile phone that has advanced computing capabilities, typically used for communication and mobile computing.	10

Total Marks: _____
 Candidate's Signature: _____
 Date: _____

Roll Number: _____
 Name: _____
 Date: _____