

Chapter 1

Introduction to Electronics

One mark questions (Knowledge):

1. What is electronics?
2. Who discovered electron?
3. Who invented vacuum tube triode?
4. Who invented integrated circuits?
5. Who invented BJT?
6. Who invented JFET?
7. Expand MOSFET.
8. What is a chopper?
9. Expand OP-AMP.
10. Expand TTL.
11. Expand SCR.
12. Expand IGBT.
13. Expand VLSI.
14. Expand EPROM.
15. Expand GPS.
16. Expand WAN.
17. Expand ARPA.
18. What is internet?

One mark questions (Understanding):

1. How many electrodes are present in vacuum tube triode?
2. Name the electronic device which has replaced the bulky vacuum triode.
3. Name two semiconductor materials used in electronic device fabrication.
4. What is the function of inverter circuit?
5. Name the most commonly used semiconductor material in electronic device fabrications.
6. Name the four-bit microcontroller developed by Texas instrumentation first time.
7. Give an example for microelectronic device.
8. Name the electronic system used to trace the vehicles from the distant places.

One mark questions (Application):

1. Name any one application of Op-Amp.
2. Where do we use inverters?
3. Where do we use rectifiers?
4. Where do we use microcontrollers?
5. Write one application of GPS.

Two marks questions (Knowledge):

1. Name any four power semiconductor devices.
2. Write a note on role of electronics in day to day life.
3. Name any two medical electronic equipment.

4. List any four household electronic equipment.

Two marks questions (Understanding):

1. Distinguish between microprocessor and microcontroller.
2. Briefly explain how electronics has given us pleasant comforts.
3. Why semi conductor devices are preferred compared to vacuum tube devices.
4. Silicon is more preferred than germanium in semi conductor devices fabrication, justify.

Two marks questions (Application):

1. Mention few applications of internet.
2. Mention any two applications of electronics in entertainment.

Three marks questions (Knowledge):

1. Give a brief note on scope of electronics.
2. Write a note on role of electronics in medical science.
3. Discuss on the job opportunities available in the field of electronics.

Three marks questions (Understanding):

1. List the scale of integrations depending on number of components used in IC fabrications.
2. What is the impact of electronics in our daily life?

Three marks questions (Application):

1. Write the applications of electronics in medicine and industry.
2. Write the applications of electronics in defence and communication.
3. Write any six advantages of internet.