

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

11. a) What are semiconductors? Explain the classification of semiconductors in detail.
OR
b) Compare RAM, DRAM and ROM in detail.
12. a) Explain the domain theory of ferromagnetism and the property of ferromagnetic materials.
OR
b) Compare the working of optical and magnetic and magneto optical memory devices.
13. a) Explain the construction and working of Nd:YAG laser.
OR
b) Outline the fiber optical communication system with neat diagram.
14. a) Discuss the construction and working of Ball milling technique which is used to synthesis nanomaterials.
OR
b) Explain how superconductors are used in SQUID and Levitation in detail.
15. a) State and prove De Morgan's theorem.
OR
b) Explain the working of Half and Full Adder.

Z-Z-Z

END