

PART A

1. Positive
2. 1:1
3. decreases
4. Both electric and magnetic fields.
5. (A)
6. zero.
7. weber
8. Only to pure resistor
9. Radio waves
10. Passes through second principal axis
11.  $I_0/2$
12. (D) (ii) & (iv) correct
13. 13.6 eV
14. Alpha decay
15. Indium.

PART B

16. increase.
17. Generator
18. maximum.
19. thermonuclear fusion.
20. decrease.