

Physics (P5) Chapter Questions

1. What does DC stand for?
2. What does AC stand for?
3. Is UK mains electricity AC or DC?
4. What Potential difference is UK mains electricity?
5. What frequency is UK mains electricity?
6. What is the name for the device which increases the potential difference in the national grid?
7. What is the name for the device which lowers the potential difference in the national grid?
8. What is the name for the whole system (cables, step up transformers and step down transformers) that ensure electricity gets around the country?
9. What is the name for the brown wire in a mains plug, which has the high Potential difference?
10. What is the name for the blue wire in a mains plug, which completes the circuit?
11. What is the name for the green and yellow wire in a mains plug that is used for safety?
12. What is the unit of potential difference?
13. What is the unit of current?
14. What is the unit of resistance?
15. What is the unit of charge?
16. What is the unit of power?
17. What is the unit of time?
18. What is the unit of energy and work done?
19. Write the equation which links power, time and energy
20. Write the equation which links current resistance and power
21. Write the equation which links current, power and potential difference

Physics (P5) Chapter Answers

1. Direct Current
2. Alternating Current
3. Alternating Current
4. 230V
5. 50Hz
6. Step Up transformer
7. Step Down Transformer
8. The National Grid
9. Live Wire
10. Neutral Wire
11. Earth Wire
12. Volt (V)
13. Amps (A)
14. Ohm (Ω)
15. Coulomb (C)
16. Watt (W)
17. second (s)
18. Joule (J)
19. Energy = power x time
20. Power = current² x resistance
21. Power = current x potential difference