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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| / 99 | | | | | | | | | | |
| **Physics 30 - Lesson 22A**  **AC Power** | | | | | | | | | | |
| 1) | checkmark | | | checkmark  checkmark    checkmark  checkmark | | | | | | |
| 2) |  | | | checkmark    checkmark  checkmark  checkmark | | | | | | |
| 3) | checkmark | | | checkmark    checkmark | | | | | | |
| 4) | checkmark | | | checkmark  checkmark    checkmark | | | | | | |
| 5) |  | | | checkmark    checkmark | | | | | | |
| 6) |  | | | checkmark  checkmark    checkmark  checkmark  checkmark  checkmark | | | | | | |
| 7) | checkmark  checkmark | | | | | | | |  | |
| 8) | checkmark      S | | | checkmark    checkmark  checkmark | | | | | | |
| 9) | checkmark    S | | | a) BD | | checkmark    checkmark  checkmark | | | | |
| b) VC | | checkmark  checkmark | | | | |
| c) | | checkmark  checkmark | | | | |
| 10) | 20A        checkmark  checkmark | | | | | | | | | |
| a)  Toaster  Iron  Microwave | | checkmark  checkmark  checkmark  checkmark  checkmark  checkmark | | | | | | | checkmark  checkmark |
| b) | | checkmark  circuit breaker “opens”  checkmark | | | | | | |  |
|  |  | |  | | | | | | |  |
| **Transformers** | | | | | | | | | | |
| 11) | checkmark  checkmark | | | | checkmark | | | | | |
| 12) | checkmark | | | | checkmark    checkmark  checkmark | | | | | |
| 13) | checkmark | | | | checkmark  checkmark    checkmark | | | | | |
| 14) | checkmark | | | | checkmark  checkmark  checkmark | | | | | |
| 15) | checkmark | | | | a)  b) | checkmark  checkmark  checkmark  checkmark  step up transformer  checkmark    checkmark | | | | |
| 16) | checkmark | | | | | | Find or    checkmark  checkmark  checkmark  checkmark  checkmark  checkmark | | | |
| 17) | checkmark  checkmark | | | | | | | a) | checkmark  checkmark  checkmark  checkmark | |
| b) | checkmark  checkmark | | | | | | | checkmark    checkmark  checkmark    checkmark | |
| 18) | 1. Electrical energy is transmitted much more efficiently with high voltage / low current   checkmark  checkmark   1. Transformers can be used to produce the high voltage   checkmark   1. Transformers work on AC, not DC | | | | | | | | | |

|  |  |
| --- | --- |
| 19) | checkmark    Primary coil  Secondary coil  Soft Iron Core  Input  Output  checkmark  Primary coil   * AC current induces a changing magnetic field   checkmark  Iron core   * connects the changing magnetic field to the secondary coil   checkmark  Secondary Coil   * the changing magnetic field induces a new alternating current in the coil |
| 20) | checkmark |