|  |
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| / 99  |
| **Physics 30 - Lesson 22A****AC Power** |
| 1) | checkmark | checkmarkcheckmarkcheckmarkcheckmark |
| 2) |  | checkmarkcheckmarkcheckmarkcheckmark |
| 3) | checkmark | checkmarkcheckmark |
| 4) | checkmark | checkmarkcheckmarkcheckmark |
| 5)  |  | checkmarkcheckmark |
| 6) |  | checkmarkcheckmarkcheckmarkcheckmarkcheckmarkcheckmark |
| 7) | checkmarkcheckmark |  |
| 8) | checkmarkS | checkmarkcheckmarkcheckmark |
| 9) | checkmarkS | a) BD | checkmarkcheckmarkcheckmark |
| b) VC | checkmarkcheckmark |
| c) | checkmarkcheckmark |
| 10) | 20Acheckmarkcheckmark |
| a) Toaster Iron Microwave | checkmarkcheckmarkcheckmarkcheckmarkcheckmarkcheckmark | checkmarkcheckmark |
| b)  | checkmarkcircuit breaker “opens”checkmark |  |
|  |  |  |  |
| **Transformers** |
| 11) | checkmarkcheckmark | checkmark |
| 12) | checkmark | checkmarkcheckmarkcheckmark |
| 13) | checkmark | checkmarkcheckmarkcheckmark |
| 14) | checkmark | checkmarkcheckmarkcheckmark |
| 15) | checkmark | a)b) | checkmarkcheckmarkcheckmarkcheckmarkstep up transformercheckmarkcheckmark |
| 16) | checkmark | Find or checkmarkcheckmarkcheckmarkcheckmarkcheckmarkcheckmark |
| 17) | checkmarkcheckmark | a) | checkmarkcheckmarkcheckmarkcheckmark |
| b)  | checkmarkcheckmark | checkmarkcheckmarkcheckmarkcheckmark |
| 18) | 1. Electrical energy is transmitted much more efficiently with high voltage / low current

checkmarkcheckmark1. Transformers can be used to produce the high voltage

checkmark1. Transformers work on AC, not DC
 |

|  |  |
| --- | --- |
| 19) | checkmarkPrimary coilSecondary coilSoft Iron CoreInputOutputcheckmarkPrimary coil* AC current induces a changing magnetic field

checkmarkIron core* connects the changing magnetic field to the secondary coil

checkmarkSecondary Coil* the changing magnetic field induces a new alternating current in the coil
 |
| 20) | checkmark |