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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Ch. 12 &13 Test Review

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|  |  |  |  | 1E |  L |  I |  W |  H |  I |  T |  N |  E |  Y |  | 2T |  | 3S |  A |  M |  U |  E |  L |  F |  B |  M |  O |  R |  S |  E |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 4F |  R |  A |  N |  C |  I |  S |  C |  A |  B |  O |  T |  L |  O |  W |  E |  L |  L |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 5S |  A |  M |  U |  E |  L |  S |  L |  A |  T |  E |  R |  | 6S |  |  |  |  |  |  |  |
| 7I |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  P |  |  |  |  |  |  |  T |  |  |  |  |  |  |  |
| 8N |  O |  R |  T |  H |  E |  A |  S |  T |  |  | 9G |  I |  B |  B |  O |  N |  S |  V |  O |  G |  D |  E |  N |  |  |  |  |  |  |
|  D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  R |  |  |  |  |  |  |  E |  |  |  |  |  | 10R |  |
|  U |  |  |  |  |  | 11L |  O |  W |  E |  L |  L |  S |  Y |  S |  T |  E |  M |  |  |  |  |  L |  |  |  |  |  |  I |  |
|  S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  A |  |  |  |  |  |  |  |  |  |  |  |  |  C |  |
|  T |  |  | 12T |  |  |  |  |  |  |  |  |  |  |  |  T |  |  | 13I |  | 14R |  |  |  |  |  | 15M |  |  H |  |
|  R |  |  |  E |  | 16G |  R |  E |  A |  T |  B |  R |  I |  T |  A |  I |  N |  |  S |  |  A |  |  |  |  |  |  A |  |  A |  |
|  I |  |  |  C |  |  |  |  |  |  |  |  |  |  |  |  O |  |  |  S |  |  I |  |  |  |  |  |  S |  |  R |  |
|  A |  |  |  H |  |  |  | 17I |  N |  T |  E |  R | 18C |  H |  A |  N |  G |  E |  A |  B |  L |  E |  P |  A | 19R |  T |  S |  |  D |  |
|  L |  |  |  N |  |  |  |  |  |  |  |  |  L |  |  |  R |  |  |  C |  |  R |  |  |  |  H |  |  P |  |  A |  |
|  R |  | 20C |  O |  A |  L |  |  | 21A |  L |  F |  R |  E |  D |  L |  E |  W |  I |  S |  V |  A |  I |  L |  |  O |  |  R |  |  R |  |
|  E |  |  |  L |  |  | 22G |  |  |  |  |  |  R |  |  |  V |  |  |  I |  |  O |  |  |  |  D |  |  O |  |  K |  |
|  V |  |  |  O |  |  |  O |  |  |  | 23J |  |  M |  |  |  O |  |  |  N |  |  D |  | 24M |  |  E |  |  D |  |  W |  |
|  O |  |  |  G |  |  |  V |  |  |  |  O |  |  O |  |  |  L |  |  |  G |  |  |  |  I |  |  I |  |  U |  |  R |  |
|  L |  |  |  Y |  |  |  E |  |  |  |  H |  |  N |  |  |  U |  | 25T |  E |  X |  T |  I |  L |  E |  S |  |  C |  |  I |  |
|  U |  |  |  |  |  |  R |  |  |  |  N |  |  T |  |  |  T |  |  |  R |  |  |  |  L |  |  L |  |  T |  |  G |  |
|  T |  |  |  |  |  |  N |  |  |  |  D |  |  |  |  |  I |  |  |  |  |  |  |  S |  |  A |  |  I |  |  H |  |
|  I |  |  |  |  |  |  M |  |  | 26P |  E |  T |  E |  R |  C |  O |  O |  P |  E |  R |  |  |  |  |  N |  |  O |  |  T |  |
|  O |  |  |  |  |  |  E |  |  |  |  E |  |  |  |  |  N |  |  |  |  |  |  |  |  |  D |  |  N |  |  |  |
|  N |  |  |  |  |  |  N |  |  |  |  R |  |  |  |  |  |  |  |  |  |  |  |  |  |  S |  |  |  |  |  |
|  |  |  |  |  | 27S |  T |  R |  I |  K |  E |  S |  | 28S |  A |  R |  A |  H |  G |  B |  A |  G |  L |  E |  Y |  |  |  |  |  |
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| 29W |  A |  R |  O |  F |  1 |  8 |  1 |  2 |  | 30T |  R |  A |  D |  E |  U |  N |  I |  O |  N |  S |  |  |  |  T |  |  |  |  |  |
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|  | 31R |  O |  B |  E |  R |  T |  F |  U |  L |  T |  O |  N |  | 32C |  Y |  R |  U |  S |  M |  C |  C |  O |  R |  M |  I |  C |  K |  |  |

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| **Across****1.**  first used interchangeable parts**3.** perfected the first telegraph**4.** New England business man whose mills did multiple steps**5.** British mechanic who built the new textile machines in the U.S.**8.** area in the U.S. where most textile mills where located **9.** supreme court case regarding interstate commerce and reinforcing federal**11.** hiring young, unmarried woman from far,s to work in textile mills**16.** where did the Industrial Revolution first began in this country**17.**  pieces of products that are exactly the same**20.** replaced wood as the main source of power for loco motives**21.** developed the Morse code**25.**  cloth items**26.** he built a small locomotive called the tom thumb **27.** protests of work refusals staged by union members to meet their demands**28.** founder of the Lowell Female Labor Reform Association **29.** event that led American manufacturing to be less dependent on foreign goods**30.** groups that tried to improve pay and working conditions for their members**31.** he invented the steamboat**32.** developed the mechanical reaper | **Down****2.** period of rapid growth in speed and convenience or travel**6.** used to make railroads**7.** period of rapid growth in the use of machines in manufacturing**10.**  invented the water frame**12.**  tools used to do work or produce items**13.** improved and marketed the sewing machine**14.** industry with some of the most powerful businesses in the U.S.**15.** productions of large numbers of identical goods**18.** name of the first U.S. steamboat built by Robert Fulton**19.** Samuel Slater's strategy of hiring families to divided factory work**22.** power over the states**23.** designed the steel plow**24.** built along streams to use water for power |