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

Crossword Puzzle on Diodes and BJT

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|  |  |  |  |  |  |  | L |  | 5  Z |  |  | 6  R |  | F |  |  |  |  | I |
|  |  |  |  |  |  |  | L |  | E |  |  | E |  | E |  |  |  |  | T |
|  |  |  |  |  |  | 7  C | E |  | N |  |  | 8  C | U | T | O | F | F |  | T |
|  |  |  |  |  |  |  | C |  | E |  |  | T |  |  |  |  |  |  | E |
|  |  |  |  |  | 9  S | A | T | U | R | A | T | I | O | N |  |  |  |  | R |
|  |  | 10  C |  |  |  |  | O |  |  |  |  | F |  |  |  | 11  L |  |  |  |
|  | 12  C | L | I | P | P | E | R |  | 13  B |  | 14  R | I | P | P | L | E |  |  |  |
|  |  | A |  |  |  |  |  |  | J |  |  | E |  |  |  | D |  |  |  |
|  |  | M |  |  |  | 15  C | C |  | T |  | 16  D | R | A | I | N |  |  |  |  |
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|  |  | E |  |  |  |  | 17  S | O | U | R | C | E |  |  |  |  |  |  |  |
|  |  | R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 18  D | O | U | B | L | E | R |  |  |  |  |  |  |
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| **Across**  **3.** Converts light energy to electric energy  **7.** Both the voltage gain and current gain are greater than 1 in\_\_\_ configuration  **8.** BJT acts as OPEN switch in \_\_\_\_\_\_\_\_\_\_\_\_\_ region  **9.** BJT acts as ON switch in \_\_\_\_\_\_\_\_\_\_region  **12.** This circuit is also called as limiter  **14.** AC content in DC output  **15.** Voltage gain is less than 1 in \_\_\_ configuration  **16.** \_\_\_\_\_\_\_\_\_\_\_\_\_terminal of MOSFET is similar to collector in BJT  **17.** \_\_\_\_\_\_\_\_\_\_\_\_\_terminal of MOSFET is similar to emitter in BJT  **18.** Output is twice the peak value of input | **Down**  **1.** Voltage controlled device  **2.** BJT region having largest area  **4.** Heavily doped region of BJT  **5.** Used for voltage regulation  **6.** Converts AC to pulsating DC  **10.** Input waveform shifted in positive or negative direction  **11.** Works on electroluminescence  **13.** Current controlled device |