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

ELECTRICAL

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  | 4 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |
|  |  |  |  |  | 6 |  |  |  |  |  |  | 7 |  |  |  |  | 8 |  |  |
|  | 9 |  | 10 |  |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 12 |  |  |  |  |  |  | 13 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 15 |  |  |  |  |  |  | 16 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 17 |  | 18 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 19 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across**  **2.** . A \_\_\_\_\_\_\_\_\_ has two pn junctions.  **3.** The purpose of a parallel circuit resonance is to magnify  **6.** An FM radio receiver which is tuned to a 91.6 MHz broadcast station may receive an image frequency of \_\_\_\_\_\_\_\_\_\_ MHz.  **7.** A differential amplifier has a differential gain of 20,000 . CMRR=80 dB. The common mode gain is given by  **14.**  At room temperature the current in an intrinsic semiconductor is due to  **15.** . The universal gate is ………………  **16.** For telegraphy the most commonly used modulation system is  **19.** The frequency range of 300 kHz to 3000 kHz is known as\_\_\_\_\_\_\_\_\_frequency.  **20.**  The product of apparent power and cosine of the phase angle between circuit voltage and current is | **Down**  **1.**  For attenuation of high frequencies we should use  **4.**  The double energy transient occur in the  **5.** Using DeMorgan’s Theorem we can convert any AND-OR structure into  **8.** The horizontal intercept of dc load line is the same as ideal \_\_\_\_\_\_\_ point.  **9.** The effective channel length of a MOSFET in a saturation decreases with increase in \_\_\_\_\_\_ voltage.  **10.** A debouncing circuit is a  **11.** The most commonly used semiconductor material is  **12.** What is the octal equivalent of the binary number: 10111101  **13.** The \_\_\_\_\_\_\_\_ is like a bidirectional SCR  **17.** The number of interrupt lines in 8085 is  **18.**  The safest value of current the human body can carry for more than 3 second is |