

Kurumbapalayam(Po), Coimbatore – 641 107



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UNIT V:Linear & Digital Electronics

1. Choose the Symbol of PN junction diode:-



2.PN junction diode acts as -----?

CLUE: Rectifiers

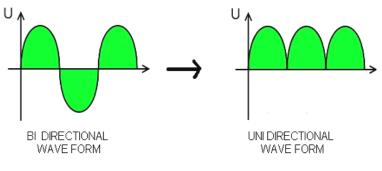
3. When the negative terminal is connected to positive terminal and when the positive terminal is connected to negative terminal then it is called as------ bias



4.Diode acts As a ------



3.Conversion happen by diode: This is called as ____



4 Type of the Diode



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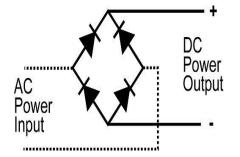
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TCHOYTKS DIEDO	
NEUTLN DEIDO	
TAVRAORC DEDIO	
ZEERN DEDIO	

5. The ratio of rms value of Ac component to Dc component in the output is called as



6. The need for a center tapped transformer in Full wave rectifier is eliminated in ------



CLUE:

7 Peak factor of half wave rectifier is



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C.

A.

8.Find the odd man out

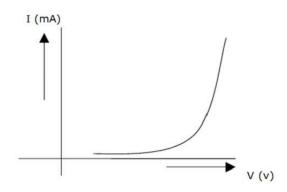
a. Inductor filter b. capacitor filter c. Rc filter

9. which works under the phenomena of electroluminescence

CLUE:



10.Identify the characteristics of the figure:



11. Threshold voltage for germanium

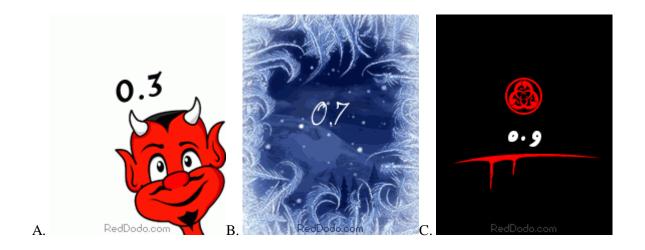


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12. Work function is the maximum energy required by the fastest electron at 0 K to escape from the metal surface.

<u>A.</u>True

B.False

13. Reverse saturation current ------for every 10 degree increase in temperature????

Clue:



14. ZENER DIODE AS A REGULATOR

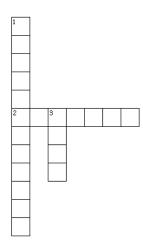


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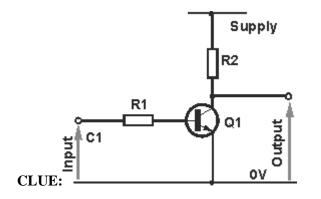
ACROSS:

2. Two types of regulation are-----(2)regulation and load regulation DOWN:

1. Maximum current will flow through the zener diode during ------(1)

3. The purpose of ais to maintain a constant voltage across a load regardless of variations in the applied input voltage and variations in the load current.(3)

15.Among the configuration which one is the best



16. Transistor has ----- types of configuration

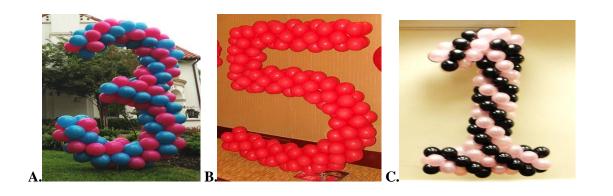


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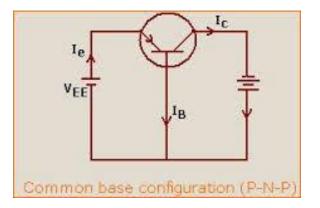


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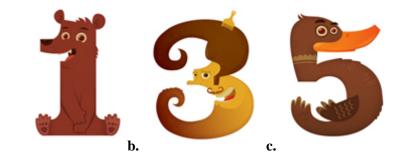
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17.Transistor acts as a -----



18.Common base has a current gain of



19.Find the odd man out

a



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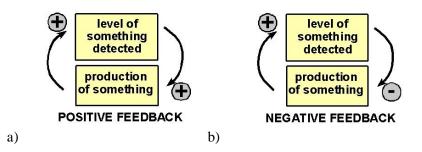
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a. CE configuration b. CC configuration c. ZC configuration

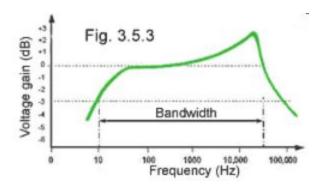
50.Common emitter is ----- doped

CLUE:

20. When a snowball rolls down a snowy hill, it picks up snow, which causes it to roll faster. The result is that the snowball will pick up more snow and roll even faster. This scenario would best be described as:



21. The audio amplifier response curve illustrated in Fig. 3shows which of the following problems?



- a) Frequency distortion
- b) Amplitude distortion

22. The most commonly used semiconductor material is

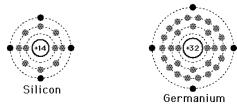


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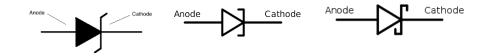


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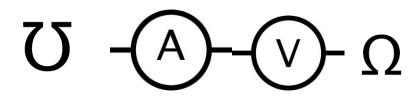
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23. In which of these is reverse recovery time nearly zero?



24. The unit of trans conductance is



25. The voltage at which avalanche occurs is



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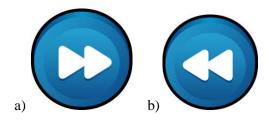
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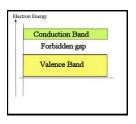
26. In a bipolar transistor the base collector junction has-----bias

Clue:



27. Free electrons exist in-----band

Clue:



28. The figure represents a ------



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31) The BJT is a _____ controlled device

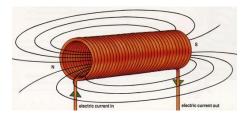
32) When transistors are used in digital circuits they usually operate in the saturation and _____ region

Clue:



33) Electromechanical device that use electromagnetism to produce a mechanical operation.

Clue:



34) What is the resistor value in the given circuit?

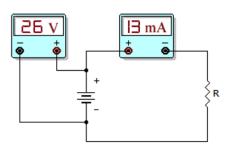


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- a) 1 k ohm
- b) 2 k ohm
- c) 3 k ohm
- d) 4 k ohm



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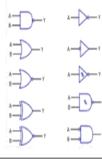


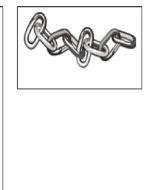
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FIND THIS!!!! UNIT IV: DIGITAL ELECTRONICS



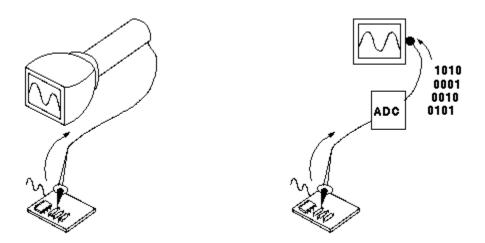






LOGICAL LINK CONTROL

2.0 Identify the Conversion





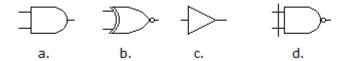
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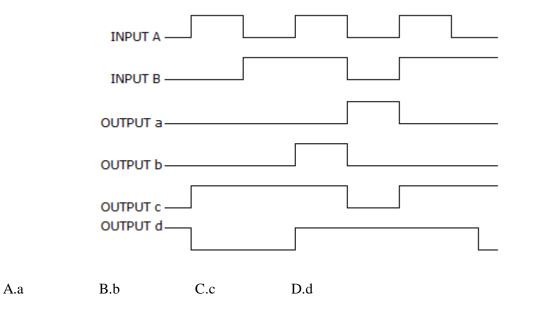
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3. Which of the figures shown below represents the exclusive-NOR gate?



4. For a two-input XNOR gate, with the input waveforms as shown below, which output waveform is correct?





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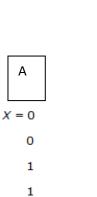


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5. The correct output for this XOR truth table is _____.

А	В	x
0	0	?
0	1	?
1	0	?
1	1	?



В	С
X = 0	X = 0
1	1
1	1
1	0

1

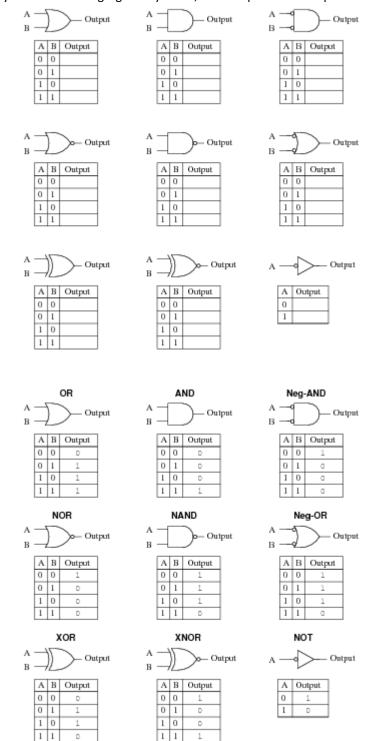


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6. Identify each of these logic gates by name, and complete their respective truth tables:



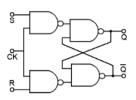
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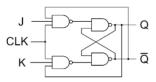
7.S-R Flip Flop :



TRUTH TABLE

S	R	Q _N	$Q_{\scriptscriptstyle N+1}$
0	0		
0	0		
0	1		
0	1		
1	0		
1	0		
1	1		
1	1		

8.J-K Flip Flop:



TRUTH TABLE



9.Draw the timing diagram for the <u>Asynchronous Counter</u>



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