

Name: \_\_\_\_\_ Hall Ticket No.

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.****I Choose the correct alternative:**

- Bistable Multivibrator is used as \_\_\_\_\_ [     ]  
A) Flip flop                      B) Triangular                      C) Sinusoidal                      D) Sawtooth
- In a class-A amplifier, the worst case condition occurs with \_\_\_\_\_ [     ]  
A) Transformer coupling                      B) maximum signal input  
C) Zero signal input                      D) High load resistance
- The Capacitor acts as \_\_\_\_\_ to sudden changes in voltage [     ]  
A) Open circuit                      B) short circuit                      C) offers reactance                      D) offers attenuation
- The function performed by clipping circuit is \_\_\_\_\_. [     ]  
A) slicing                      B) restoring                      C) energy storing                      D) All
- Clamping circuit theorem is given by \_\_\_\_\_ [     ]  
A)  $\frac{A_f}{A_r} = \frac{R}{R_f}$                       B)  $\frac{A_f}{A_r} = \frac{R_f}{R_r}$                       C)  $\frac{A_r}{A_f} = \frac{R_f}{R_r}$                       D) None
- The  $V_{be}$  ( active ) of Silicon transistor is \_\_\_\_\_ [     ]  
A) 0.3 V                      B) 0.6V                      C) 0.75V                      D) 0V
- In diode \_\_\_\_\_ switching time is negligible [     ]  
A) Reverse recovery                      B) Forward recovery                      C) Rise                      D) Transition
- Cross over distortion occurs in \_\_\_\_\_. Amplifier [     ]  
A) class-A                      B) class-B                      C) class-C                      D) class-D
- Astable Multivibrator has \_\_\_\_\_ stable states [     ]  
A) one                      B) two                      C) no                      D) three
- In clipping circuits the transistor is operated in \_\_\_\_\_ [     ]  
A) break down region                      B) active region  
C) in load line                      D) either in cutoff or saturation or both

**II Fill in the blanks:**

11. Hysteresis in Schmitt trigger is given by \_\_\_\_\_
12. The total minority charge  $Q_T$  is sum of \_\_\_\_\_ and \_\_\_\_\_
13. The condition for saturation region of transistor is \_\_\_\_\_
14. The application of clamping circuit is \_\_\_\_\_
15. The Efficiency of Class-A amplifier is \_\_\_\_\_
16. The Pulse width of Monostable multivibrator is given by \_\_\_\_\_
17. The self destruction of transistor is called as \_\_\_\_\_
18. \_\_\_\_\_ circuit generates square wave from sinusoidal input
19. \_\_\_\_\_ alters the shape of the input sinusoidal signal
20. \_\_\_\_\_ triggering is used in binary counting circuits

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- The function performed by clipping circuit is \_\_\_\_\_. [     ]  
A) slicing                      B) restoring                      C) energy storing                      D) All
- Clamping circuit theorem is given by \_\_\_\_\_. [     ]  
A)  $\frac{A_f}{A_r} = \frac{R}{R_f}$                       B)  $\frac{A_f}{A_r} = \frac{R_f}{R_r}$                       C)  $\frac{A_r}{A_f} = \frac{R_f}{R_r}$                       D) None
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- Cross over distortion occurs in \_\_\_\_\_. Amplifier [     ]  
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- Astable Multivibrator has \_\_\_\_\_ stable states [     ]  
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- In a class-A amplifier , the worst case condition occurs with \_\_\_\_\_. [     ]  
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- The Capacitor acts as \_\_\_\_\_ to sudden changes in voltage [     ]  
A) Open circuit                      B) short circuit                      C) offers reactance                      D) offers attenuation

**II Fill in the blanks:**

11. The application of clamping circuit is \_\_\_\_\_
12. The Efficiency of Class-A amplifier is \_\_\_\_\_
13. The Pulse width of Monostable multivibrator is given by \_\_\_\_\_
14. The self destruction of transistor is called as \_\_\_\_\_
15. \_\_\_\_\_ circuit generates square wave from sinusoidal input
16. \_\_\_\_\_ alters the shape of the input sinusoidal signal
17. \_\_\_\_\_ triggering is used in binary counting circuits
18. Hysteresis in Schmitt trigger is given by \_\_\_\_\_
19. The total minority charge  $Q_T$  is sum of \_\_\_\_\_ and \_\_\_\_\_
20. The condition for saturation region of transistor is \_\_\_\_\_

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.****I Choose the correct alternative:**

- The  $V_{be}$  ( active ) of Silicon transistor is \_\_\_\_\_ [     ]  
 A) 0.3 V                      B) 0.6V                      C) 0.75V                      D) 0V
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- Astable Multivibrator has \_\_\_\_\_ stable states [     ]  
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- In clipping circuits the transistor is operated in \_\_\_\_\_ [     ]  
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**II Fill in the blanks:**

11. The Pulse width of Monostable multivibrator is given by \_\_\_\_\_
12. The self destruction of transistor is called as \_\_\_\_\_
13. \_\_\_\_\_ circuit generates square wave from sinusoidal input
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18. The condition for saturation region of transistor is \_\_\_\_\_
19. The application of clamping circuit is \_\_\_\_\_
20. The Efficiency of Class-A amplifier is \_\_\_\_\_

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