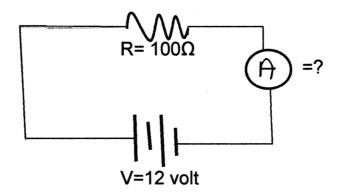
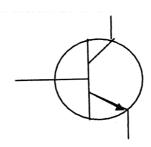
2.		main purpose of using silicon steel in the lamination of the transformer is		
	(A)	To reduce hysteresis losses		
	(B)	To reduce copper losses		
	(C)	To reduce eddy current losses		
	(D)	To reduce magnetic losses		
3.		transformer that has same number of turns in the primary and dary winding is called		
	(A)	Power Transformer		
	(B)	Shell type Transformer		
	(C)	Isolation Transformer		
	(D)	Core type Transformer		
4.	Any complex circuit can be replaced by a single source of emf in series with a single resistance by applying			
	(A)	Ohm's law		
	(B)	Thevenin theorem		
	(C)	Superposition theorem		
	(D)	Lenz's law		
5.	The element suitable for doping an intrinsic semiconductor to obtain an N-type semiconductor is			
	(A)	Potassium		
	(B)	Phosphorus		
	(C)	Polonium		
	(D)	All of the above		

- - (A) Common source
  - (B) Common emitter
  - (C) Common collector
  - (D) Common base

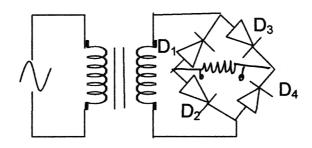


- (A) 120 mA
- (B) 12.00 mA
- (C) 1.200 mA
- (D) 0.12 mA
- - (A) The distance between the two coils decreases
  - (B) When the current in the input coil increases
  - (C) When the number of turns in both coils is increased
  - (D) When the distance between the two coils is increased

9.	The o	collector region is made physically larger than the emitter region
	becau	se
	(A)	Collector region dissipates more power
	(B)	Emitter region dissipates more power
	(C)	Collector region dissipates less power
	(D)	Emitter region dissipates less power
10.	The A	AC component presents in the output voltage of the rectifier in the
	power	supply circuit is called
	(A)	Instantaneous value
	(B)	Ripple
	(C)	Amplitude
	(D)	Frequency
11.	The d	disadvantege of full wave rectifier over half wave rectifier is
	(A)	Full wave rectifier requires more diodes than half wave rectifier
	(B)	Full wave rectifier requires more space than half wave rectifier
	(C)	Design of full wave rectifier is more complex than half wave rectifier
	(D)	All of the above
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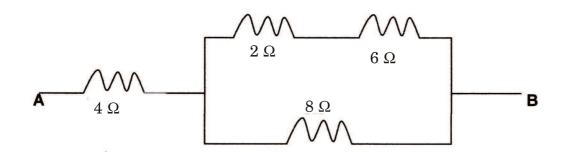


- (A) PNP
- (B) MOSFET
- (C) FET
- (D) NPN



- $(A) \quad \ \, D_{_{1}} \ and \ \, D_{_{2}}$
- (B)  $D_2$  and  $D_3$
- (C)  $D_1$  and  $D_3$
- (D)  $D_2$  and  $D_4$

14.		value of the forbidden energy gap in an energy band structure of a	
	semic	conductor is	
	(A)	5 eV	
	(B)	$2  \mathrm{eV}$	
	(C)	1 eV	
	(D)	0.1 eV	
15.	The	rectification efficiency of full wave rectifier is double than half wave	
	rectif	ier because	
	(A)	it converts only positive cycle of AC to DC	
	(B)	it converts only negative cycle of AC into DC	
	(C)	it converts both positive and negative cycles of AC into DC	
	(D)	none of the above	
16.	PN Junction diode allows the current to flow, when it is		
	(A)	Reverse biased	
	(B)	Forward biased	
	(C)	In both forward and reverse biased	
	(D)	None of the above	
17.	The l	heat produced in the transformer's winding is due to	
	(A)	Input current	
	(B)	Input resistance	
	(C)	Load current	
	(D)	Load resistance	
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- (A)  $10 \Omega$
- (B)  $8 \Omega$
- (C)  $100 \Omega$
- (D)  $20 \Omega$
- - (A) Bridge rectifier
  - (B) Half wave rectifier
  - (C) Centre tap rectifier
  - (D) None of the above
- - (A) Extra care and maintenance
  - (B) Very little care and maintenance
  - (C) No care and maintenance
  - (D) All of the above

## Rough Work