

1. The Power diode consists of ____ semiconductor layers.
 a) One b) Two c) Three d) None of the above
2. Due to conductivity modulation, on-state losses in the diode are _____.
 a) Reduced b) increased c) same d) none of the above
3. Reverse recovery time depends on _____.
 a) Junction temperature b) Rate of fall of forward current
 c) forward current d) all of the above
4. Diodes are connected in _____ to increase the reverse blocking capabilities.
 a) Parallel b) series c) Anti-parallel d) None of the above
5. Diodes are connected in _____ to meet the higher current requirements.
 a) Parallel b) series c) Anti-parallel d) None of the above
6. _____ is the minimum anode current required to maintain the thyristor in the on-state.
 a) Latching current b) holding current c) reverse current d) None of the above
7. In two transistor analogy of thyristor consist of ____ & ____ type of transistors.
 a) NPN, NPN b) PNP, PNP c) NPN, PNP d) None of the above
8. The snubber circuit is a _____ combination of resistor 'R' and capacitor 'C'.
 a) Parallel b) series c) Anti-parallel d) None of the above
9. In Triac, two thyristors are connected in _____ combination.
 a) Parallel b) series c) Anti-parallel d) None of the above
10. Triac is a _____ device.
 a) Unidirectional b) bidirectional c) directional d) None of the above
11. Thyristor is a _____ device.
 a) Unidirectional b) bidirectional c) directional d) None of the above
12. The line voltages are phase shifted from each other by _____.
 a) 60° b) 120° c) 90° d) 180°
13. The phase voltages are phase shifted from each other by _____.
 a) 60° b) 120° c) 90° d) 180°
14. Average dc voltage of three phase half wave rectifier is _____.
 a) $0.8723 V_m$ b) $0.9554 V_m$ c) $0.6428 V_m$ d) None of the above
15. Average dc voltage of three phase Full wave rectifier is _____.
 a) $0.8723 V_m$ b) $0.9554 V_m$ c) $0.6428 V_m$ d) None of the above
16. _____ number of diodes are used in three phase bridge rectifier.
 a) 4 b) 6 c) 2 d) 8
17. In SMPS, series pass transistor act as _____.
 a) Amplifier b) switch c) buffer d) None of the above
18. In ON line UPS, UPS static switch Normally _____.
 a) ON b) OFF c) both a) & b) d) None of the above
19. Electronic ballast is a device that converts power frequency to very ____ frequency
 a) High b) low c) medium d) None of the above
20. For induction heating ____ frequency supply is required.

a) High

b) low

c) medium

d) None of the above