

Midterm control (Electronics)

- 1 is used in high voltage (>10 kV) applications
 - a- tungsten emitter
 - b- oxide-coated emitter
 - c- thoriated-tungsten emitter
 - d- none of the above

- 2 The thermionic emitter that has the highest operating temperature is...
 - a – oxide coated
 - b – thoriated-tungsten
 - c –tungsten
 - d – none of the above

- 3 In X-ray tubes,...emitter is used
 - a –thoriated tungsten
 - b – tungsten
 - c – oxide-coated
 - d – none of the above

- 4 The electron emitted by a thermionic emitter are called...
 - a – free electrons
 - b – loose electrons
 - c - thermionic electrons
 - d – bound electrons

- 5 The anode –to-cathode potential of a gas-filled tube at which gas deionises and stop conduction is called...potential
 - a – extinction
 - b – striking
 - c – ionising
 - d – none of the above

- 6 A thyatron can be used as ...
 - a – an oscillator
 - b – an amplifier
 - c – a controlled switch
 - d – none of the above

- 7 If the gas pressure in a gas-filled diode is increased, its PIV rating...
 - a – remains the same
 - b is increased
 - c- is decreased
 - d – none of the above

- 8 A cold cathodes tube is generally used as a ...
 - a – diode
 - b – triode
 - c – tetrode
 - d – pentode

- 9 Once a thyatron is fired, its control grid...over the plate current
a – loses all control
b – exercises fine control
c – exercises rough control
d – none of the above
- 10 To stop conduction in a thyatron, the... voltage should be reduced to zero
a – grid
b – plate
c – filament
d – none of the above
- 11 The cathode heating time of thermionic gas diode is ... that of a vacuum diode
a – the same as
b – much more than
c – much less than
d – none of the above
- 12 The solid state equivalent of cold cathode diode is...
a – zener diode
b – crystal diode
c – LED
d – transistor
- 13 Ionization of cold cathode diode takes place at ... plate potential compared to hot cathode gas diode
a – the same
b – much higher
c – much lesser
d – none of the above
- 14 The noise in a gas-filled tube is ... that in a vacuum tube
a – the same as
b – more than
c – less than
d – none of the above
- 15 The gas-filled tubes can handle ... peak inverse voltage (PIV) as compared to equivalent vacuum tubes
a – more
b – less
c – the same
d – none of the above
- 16 When an electron jumps from higher orbit to a lower orbit, it ... energy
a – absorbs
b – emits
c – sometimes emits, sometimes absorbs
d – none of the above
- 17 In a conductor, the energy gap between valence and conduction bands is ...
a – large

- b – very large
- c – very small
- d – none of the above

- 18 A semiconductor is formed by ... bonds
- a – covalent
 - b – electrovalent
 - c – co-ordinate
 - d – none of the above
- 19 When a pentavalent impurity is added to a pure semiconductor, it becomes
- a – an insulator
 - b – an intrinsic semiconductor
 - c – p-type semiconductor
 - d – n-type semiconductor
- 20 A pentavalent impurity has ... valence electrons
- a – 3
 - b – 5
 - c – 4
 - d – 6