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#Jenny



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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

16. According to the concepts relativity electric field  $E$  and magnetic field  $B$  are:
- (A) independent of the choice of frames of reference
  - (B) depends on the choice of frames
  - (C) are independent quantities
  - (D) electrical and magnetic fields are dependent quantities
17. For an electromagnetic wave propagating through a good conductor which of following is true:
- (A) Magnetic field  $B$  lags the electric field  $E$  by  $45^\circ$
  - (B)  $B$  lags  $E$  by  $60^\circ$
  - (C)  $B$  leads  $E$  by  $45^\circ$
  - (D)  $B$  leads  $E$  by  $60^\circ$
18. What is the direction of gradient of a scalar quantity  $T$ ?
- (A) no direction
  - (B) direction of the maximum change in  $T$
  - (C) direction of no change in  $T$
  - (D) direction of the 'del' operator
19. What is divergence of curl of  $E$ ?
- (A) curl of divergence
  - (B) gradient of divergence
  - (C) zero
  - (D) gradient of curl
20. Poynting vector  $S$  is defined as:
- (A)  $S = 1/\mu_0(E \times B)$
  - (B)  $S = 1/\mu_0(E \times B)$
  - (C)  $S = 1/\mu_0(E \cdot B)$
  - (D)  $S = 1/\mu_0(E \cdot B)$
21. Microwave spectrum is produced by:
- (A) all vibrating molecules
  - (B) all rotating molecules
  - (C) molecules having permanent dipole moment
  - (D) molecule having fluctuating dipole moment
22. Line width of a spectrum depends on:
- (A) collision broadening along
  - (B) Doppler broadening and collision broadening
  - (C) uncertainty in energy and time a state
  - (D) all the above
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[P.T.O.]

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