

CUET PG 2024 Physics Question Paper

Ques 1. What is q/v called

- a. Capacitance,
- b. Inductance,
- c. Resistance,
- d. Conductance

Ans. A

Que 2. 2 particle move opposite direction $0.9c$ respect to s frame Find relative velocity

Que 3. Convert into decimal 1100.1011

Que 4. If an electron moves along the x axis an electrical field is applied in the y axis. The trajectory of electron is

- a. Parabolic
- b. Circle
- c. hyperbola,
- d. Rectangular

Ans . A

Que 5. Moment of inertia of the face of a solid cylinder of mass M and radius R

- a. $MR^2/2$,
- b. $MR/2$,
- c. $3MR/4$,
- d. $3MR^2/4$

Ans A

Que 6. Power factor of LCR circuit

- a. 1
- b. 0
- c. $1/2$
- d. -1

Ans. A

Que 7. Argument of $-1-i$

- a. $3\pi/4$
- b. $5\pi/4$
- c. $-3\pi/4$
- d. $\pi/2$

Ans C

Que 8. $J(x,y/u,v)$ & $J'(u,v/x,y)$ then $JJ'=?$

Que 9. Inductive reactance: with increases in

- a. Increases,
- b. decreases,
- c. doesn't change,
- d. increases then becomes constant

Ans . A

Que 10. The forces between two charges is defined in

- a. Kepler's law,
- b. Newton's law,
- c. Coulomb's law,
- d. Ohm's law

Ans. C

Que 11. Order of gravitational potential at distance $2r$, $4r$, $8r$, $16r$

Que 12. Time period is proportional to in planetary motion

Que 13. What does the Q factor of a damped oscillator mean?

Que 14. Why is depletion region width at the emitter junction less?

- a. Because emitter is lightly doped,
- b. because collector is lightly doped,
- c. because they have same doping

Ans B

Que 15. Energy order of X Ray, Infrared, microwave, radio wave

Que 16. Two 1 kg masses separated by distance 100cm..Force between them?

- a. 0.66×10^{-9} ,
- b. 66×10^{-9} ,
- c. 6.6×10^{-9}
- d. 0.066×10^{-9} ,

Ans. C

Que 17. How efficiency changes with increasing source temperature?

- a. Increases,
- b. decrease,
- c. doesn't change,
- d. first change then becomes constant

Ans. A

**Que 18. What will happen if a Fridge is open in a room
Temperature of room**

- a. will decrease,
- b. increase,
- c. remain unchanged

Ans. B

Que 19. Conservation of linear momentum comes from

- a. 1st NLM,**
- b. 2nd NLM,**
- c. 3rd NLM,**
- d. None**

Ans. A

Que 20. $u = \log(x/y^2)$ find $xdu/dx + ydu/dy$

- a. 1,**
- b. 0,**
- c. $x \log u$,**
- d. $y \log u$**

Ans A

Que 21. Decreasing order of viscosity

Honey, glycerine, blood, Engine oil/milk

Que 22. What to do to increase the stability of the building (spring model)?

- a. Decreases spring constant,**
- b. increase mass,**
- c. add parallel springs,**
- d. add series springs**

Ans. C

Que 23. Angle between dipole and electric field in a plane