PHY101-PHYSICS

SOLVED QUIZ 3 LEC(23 TO 45)

SOLVED BY JUNAID MALIK



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- Assignment's
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3) Sloved Quiz File's
4) Short Note's
5) Past paper's &
Current paper's

Final project CS619

1) SRS
(Software Requirement's Specification)
2) DD
(Design Document)
3) Test phase + viva
4) Viva preparation
5) Final Deliverable

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ALL answers are verified if found any mistake then Correct ACCORDINGLY

1. **An inductor may store energy in its**

Magnetic field

2. **Virtual image is**

From which light rays diverge but do not pass through

3. **When you stand in front of a plane mirror, your image is**

Virtual, erect, and the same size as you

4. **The resolving power of telescope can be increased by**

Increasing the lens diameter

5. **two sources of light are said to be coherent, when they give light waves of same**

Wavelength and constant phase difference.

6. **the AC circuit in which current and voltage are in phase the power factor is**

1

7. **work done on a charged particle moving in uniform magnetic field is**

Zero

8. **The total energy in an LC circuit is 5.0 × 10–6 J. If L = 25 mH the maximum current is:**

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20mA

9. **A laser in a compact disc player generates light that has a wavelength of 780 nm in air. (i) Find the speed of this light once it enters the plastic of a compact disc (n = 1.55)**

1.94 x10^8m/s

10. **which method of heat transfer take place in vacuum**

Radiation

11. **An erect object is in front of a convex mirror a distance greater than the focal length. The image is:**

Virtual, erect, and smaller than the object

12. **In constructing a thermometer, it is necessary to use a substance that**

Undergoes some change when heated or cooled.

13. **A generator supplies 100V to a transformers primary coil, which has 50 turns. If the secondary coil has 500 turns, what is the secondary voltage?**

Vs=(Ns/Np)Vp=(500/50)100V=1000V

14. **If a charged particle is projected perpendicular to a uniform magnetic field, then particle revolves in a**

Circular path

15. **Electro magnetice upper limit for the frequency of electromagnetic wave is**

Electromagnetic spectrum has no theoretical limit

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16. the specific heat of a substance is

The amount of heat energy per unit mass to raise the temperature of the substance by 1 °C

17. Which of the following types of waves travels at the greatest speed through the vacuum?

None of the above; all these waves would travel at the same speed

18. Heat has the same units as:

Work

19. Constant-volume gas thermometers using different gases all indicate nearly the same temperature when in contact with the same object if

The particle concentrations are all extremely small

20. a light entering into glass prism from air does not give change in its

Frequency remains same when light travels from air to glass.

21. Tesla is the unit of

Magnetic flux density

22. thermometer indicates 98.6 Celsius if maybe

It is in a hot cup of tea

23. unit of Stefan Boltzmann constant r

(W · m -2 · K -4).

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24. **If two objects are in thermal equilibrium with each other**:

They cannot be at different temperatures

25. Kirchhoff's second rule is the manifestation of the law of conservation of

Energy

26. the waveform of alternating voltage is a

Sine wave

27. the strength of a lens is measured in

Diopter

28. force on a charged particle is zero when projected at angle with the magnetic field

0 or 180 not sure

29. A Kelvin thermometer and a Fahrenheit thermometer both give the same reading for a certain sample. What would be the corresponding reading in a Celsius thermometer?

301

30. In metastable state electrons reside

10-3s

31. When we accelerate the charge which type of waves are produced

Electromagnetic waves

32. The primary of a 3:1 step-up transformer is connected to a source and the secondary is connected to a resistor R. The power

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dissipated by R in this situation is P. If R is connected directly to the source it will dissipate a power of?

p/9

33. In general, the light emitted from a source, such as a flame, will be

Un-polarized

34. The wavelength of red light is 700 nanometer its frequency is

4.29 *10^14 hertz

35. Coherent light means

. Coherent means that both coherent waves should have a fixed phase relative to each other

36. In a photoelectric effect experiment at a frequency above cut off, the stopping potential is proportional to:

the energy of the most energetic electron after it is ejected

37. $2d\sin\theta=n\lambda$

Bragg equation

38. the rest mass of photon is

Zero

39. polarization experiments provide evidence that light is

A transverse waves.

40. electric energy is measured

Watt

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41. when light passes through the prism it splits into how many colors

7

42. which of the following is the difference between sound and light waves

Light waves are transverse while sound waves are longitudinal

43. When two gases separated by a diathermal wall are in thermal equilibrium with each other only their temperatures must be the same During a slow adiabatic expansion of a gas:

no energy enters or leaves as heat

44. **the appearance of color in the thin film is due to**

Interference

45. capacitive resistance Xc is

$1/2\pi fC$

46. following are the ways by which light can interact with matter except

Interference

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