

Professional Online Academy Vu Topper RM



PHY101-Physics
Update MCQ'S Final Term
By Vu Topper RM



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Question No:1

(Marks:1)

Vu-Topper RM

The image produced by a convex mirror of an erect object in front of the mirror is always:

- A. Real, erect, and larger than the object
- B. Real, erect, and smaller than the object
- C. Virtual, erect, and larger than the object
- D. Virtual, erect, and smaller than the object**

Question No:2

(Marks:1)

Vu-Topper RM

In some movies, you sometimes see an actor looking in a mirror and you can see his face in the mirror. During the filming of this scene, what does the actor see in the mirror?

- A. His face
- B. Your face
- C. The director's face
- D. The movie camera**

Question No:3

(Marks:1)

Vu-Topper RM

A femtometer is:

- A. 10^{-9} m
- B. 10^{-12} m
- C. 10^{-15} m**
- D. 10^{-18} m

Question No:4

(Marks:1)

Vu-Topper RM

The "strength" of a lens is measured in _____.

- A. Meters
- B. Diopters
- C. Provatans
- D. Lense meter**

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Question No:5

(Marks:1)

Vu-Topper RM

When an object (iron/tungsten) is heated, it emits light. It emits infrared (IR) light when it is heated at a temperature _____.

- A. Below 800 degree C**
- B. Above 2500 degree C
- C. Between 800 degree C to 1600 degree C
- D. Between 1600 degree C to 2500 degree C

Question No:6

(Marks:1)

Vu-Topper RM

The reason there are two slits, rather than one, in a Young's experiment is:

- A. To increase the intensity
- B. To create a path length difference
- C. One slit is for frequency, the other for wavelength
- D. One slit is for Electric fields , the other is for Magnetic fields**

Question No:7

(Marks:1)

Vu-Topper RM

An electron is moving at $0.6c$. If we calculate its kinetic energy using $(1/2)mv^2$, we get a result that is:

- A. Just right
- B. Just half enough
- C. About 28% too low**
- D. Twice the correct value

Question No:8

(Marks:1)

Vu-Topper RM

The theoretical upper limit for the frequency of electromagnetic waves is:

- A. There is no upper limit**
- B. Both
- C. None of these
- D. Just slightly greater than that of red light

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Question No:9

(Marks:1)

Vu-Topper RM

One revolution is the same as:

- A. 1 rad
- B. 57 rad
- C. $\pi/2$ rad
- D. 2π rad**

Question No:10

(Marks:1)

Vu-Topper RM

For a body to be in equilibrium under the combined action of several forces:

- A. All the forces must be applied at the same point
- B. All the forces must be applied at the same point
- C. All of the forces form pairs of equal and opposite forces
- D. Any two of these forces must be balanced by a third force**

Question No:11

(Marks:1)

Vu-Topper RM

Capacitors C1 and C2 are connected in series. The equivalent capacitance is given by

- A. $C1/C2$
- B. $1/(C1 + C2)$
- C. $C1C2/(C1 + C2)$**
- D. $(C1 + C2)/C1C2$

Question No:12

(Marks:1)

Vu-Topper RM

If the potential difference across a resistor is doubled:

- A. Only the current is halved
- B. Only the resistance is halved
- C. Only the current is doubled**
- D. Only the resistance is doubled

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Question No:13

(Marks:1)

Vu-Topper RM

By using only two resistors, R1 and R2, a student is able to obtain resistances of 3Ω , 4Ω , 12Ω , and 16Ω . The values of R1 and R2 (in ohms) are:

- A. 3, 4
- B. 2, 12
- C. 3, 16
- D. 4, 12**

Question No:14

(Marks:1)

Vu-Topper RM

Faraday's law states that an induced emf is proportional to:

- A. The rate of change of the electric flux
- B. The rate of change of the electric field
- C. The rate of change of the magnetic field
- D. The rate of change of the magnetic flux**

Question No:15

(Marks:1)

Vu-Topper RM

A generator supplies 100V to the primary coil of a transformer. The primary has 50 turns and the secondary has 500 turns. The secondary voltage is:

- A. 500V
- B. 250V
- C. 100V
- D. 1000V**

Question No:16

(Marks:1)

Vu-Topper RM

Which of the following electromagnetic radiations has photons with the greatest energy?

- A. X rays**
- B. Blue light
- C. Radio waves
- D. Yellow light

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Question No:17

(Marks:1)

Vu-Topper RM

We desire to make an LC circuit that oscillates at 100 Hz using an inductance of 2.5H. We also need a capacitance of:

- A. 1 F
- B. 1mF
- C. 1 μ F
- D. 100 μ F**

Question No:18

(Marks:1)

Vu-Topper RM

The wavelength of red light is 700 nm. Its frequency is _____.

- A. $4.30 * 10^4$ Hertz
- B. $4.30 * 10^3$ Hertz
- C. $4.30 * 10^5$ Hertz**
- D. $4.30 * 10^2$ Hertz

Question No:19

(Marks:1)

Vu-Topper RM

Which of the following statements is NOT TRUE about electromagnetic waves?

- A. Electromagnetic waves cannot travel through space.
- B. Electromagnetic waves satisfy the Maswell's Equation.
- C. The receptions of electromagnetic waves require an antenna.
- D. The electromagnetic radiation from a burning candle is unpolarized.**

Question No:20

(Marks:1)

Vu-Topper RM

Radio waves and light waves are

- A. Transverse waves
- B. None of the these
- C. Longitudinal waves
- D. Electromagnetic and transverse both**

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Question No:21

(Marks:1)

Vu-Topper RM

An ideal gas expands into a vacuum in a rigid vessel. As a result there is:

- A. A change in entropy**
- B. An increase of pressure
- C. A change in temperature
- D. A decrease of internal energy

Question No:22

(Marks:1)

Vu-Topper RM

The Stern-Gerlach experiment makes use of:

- A. A strong uniform electric field
- B. A strong uniform magnetic field
- C. A strong non-uniform electric field
- D. A strong non-uniform magnetic field**

Question No:23

(Marks:1)

Vu-Topper RM

A net torque applied to a rigid object always tends to produce:

- A. Rotational inertia
- B. Linear acceleration
- C. Rotational equilibrium
- D. Angular acceleration**

Question No:24

(Marks:1)

Vu-Topper RM

As the wavelength of a wave in a uniform medium increases, its speed will _____.

- A. Increase
- B. Decrease
- C. None of these
- D. Remain the same**

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Question No:25

(Marks:1)

Vu-Topper RM

An organ pipe with both ends open is 0.85m long. Assuming that the speed of sound is 340m/s, the frequency of the third harmonic of this pipe is:

- A. 200 Hz
- B. 300 Hz
- C. 400 Hz
- D. 600 Hz**

Question No:26

(Marks:1)

Vu-Topper RM

Room temperature is about 20 degrees on the:

- A. Kelvin scale
- B. Celsius scale**
- C. Absolute scale
- D. Fahrenheit scale

Question No:27

(Marks:1)

Vu-Topper RM

A particle with zero mass and energy E carries momentum:

- A. Ec
- B. E/c**
- C. Ec^2
- D. vEc

Question No:28

(Marks:1)

Vu-Topper RM

J.J.Thompson's measurement of e/m for electrons provides evidence of the:

- A. Wave nature of matter
- B. Wave nature of radiation
- C. Particle nature of matter**
- D. Particle nature of radiation

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Question No:29

(Marks:1)

Vu-Topper RM

During a slow adiabatic expansion of a gas:

- A. Energy is added as heat
- B. Work is done on the gas
- C. The pressure remains constant
- D. No energy enters or leaves as heat**

Question No:30

(Marks:1)

Vu-Topper RM

A force of 5000N is applied outwardly to each end of a 5.0-m long rod with a radius of 34.0 cm and a Young's modulus of $125 \times 10^8 \text{ N/m}^2$.

The elongation of the rod is:

- A. 0.55mm**
- B. 1.42mm
- C. 2.24mm
- D. 0.56mm

Question No:31

(Marks:1)

Vu-Topper RM

An object attached to one end of a spring makes 20 complete oscillations in 10 s. Its period is: Select correct option:

- A. 2 s
- B. 2Hz
- C. 0.5 s**
- D. 0.5Hz

Question No:32

(Marks:1)

Vu-Topper RM

back and forth in a leftward and rightward direction. This type of wave is known as a

- A. Transverse
- B. Mechanical
- C. Longitudinal**
- D. Electromagnetic

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Question No:33

(Marks:1)

Vu-Topper RM

The flow rate of blood through the average human aorta is about $9.0 \times 10^1 \text{ cm}^3/\text{s}$. If the aorta has a radius of 1.0 cm, what is the velocity of the blood flow?

- A. 14 cm/s
- B. 32 cm/s
- C. 37 cm/s
- D. 29 cm/s**

Question No:34

(Marks:1)

Vu-Topper RM

Metal pipes, used to carry water, sometimes burst in the winter because:

- A. Metal contracts more than water
- B. Metal becomes brittle when cold
- C. Water expands when it freezes**
- D. Outside of the pipe contracts more than the inside

Question No:35

(Marks:1)

Vu-Topper RM

Which one of the following is in the order of decreasing frequency?

- A. Ultraviolet rays
- B. Visible light
- C. Radio waves
- D. All**

Question No:36

(Marks:1)

Vu-Topper RM

If velocity of a conductor moving through a magnetic field B is made zero then motional emf is:

$-vBL$

Question No:37

(Marks:1)

Vu-Topper RM

The lenz's law refers to:

Induced current

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Question No:38

(Marks:1)

Vu-Topper RM

The increase in capacitance of a capacitor due to presence of dielectric is due to:

Electric polarization

Question No:39

(Marks:1)

Vu-Topper RM

inductance L and a capacitance C has an oscillation frequency f . Two inductors, each with inductance L , and two capacitors, each with capacitance C , are all wired in series and the circuit is completed. The oscillation

F

Question No:40

(Marks:1)

Vu-Topper RM

Which of the following is equivalent to one coulomb?

One ampere second

Question No:41

(Marks:1)

Vu-Topper RM

Tesla is a unit of

Magnetic flux

Question No:42

(Marks:1)

Vu-Topper RM

The current in a car headlamp is 2.0 A. The headlamp is switched on for 3.0 minutes. How much charge passes through the headlamp?

360c

Question No:43

(Marks:1)

Vu-Topper RM

In constructing a thermometer it is NECESSARY to use a substance that:

Undergoes some change when heated or cooled

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Question No:44

(Marks:1)

Vu-Topper RM

A gas which strictly obeys the gas laws under all conditions of temperature and pressure is called:

Perfect gases

Question No:45

(Marks:1)

Vu-Topper RM

In RL series circuit phase angle is given by:

Tan-1(wl/R)

Question No:46

(Marks:1)

Vu-Topper RM

Which of the following have the greatest wavelength?

Radio waves

Question No:47

(Marks:1)

Vu-Topper RM

When a charge is projected perpendicular to a uniform magnetic field, its path is:

A circular path

Question No:48

(Marks:1)

Vu-Topper RM

When two objects come to common temperature, the body is said to be in:

Thermal equilibrium

Question No:49

(Marks:1)

Vu-Topper RM

Which method(s) of heat transfer can take place in vacuum?

Electromagnetic waves

Question No:50

(Marks:1)

Vu-Topper RM

A step-down transformer is used to:

Decrease the voltage

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Question No:51

(Marks:1)

Vu-Topper RM

In an adiabatic process:

The work done by the environment on the system equals the change in internal energy.

Question No:52

(Marks:1)

Vu-Topper RM

The focal length of a spherical mirror is N times its radius of curvature where N is:

$F=R/2$

Question No:53

(Marks:1)

Vu-Topper RM

Capacitive reactance X_c is:

$1/2 \pi f c$

Question No:54

(Marks:1)

Vu-Topper RM

Force per unit charge is:

Electric field.

Question No:55

(Marks:1)

Vu-Topper RM

If the kinetic energy of a free particle is much less than its rest energy then its kinetic energy is proportional to:

The square of the magnitude of its momentum

Question No:56

(Marks:1)

Vu-Topper RM

Which physical quantity is produced by a calculation where a charge is multiplied by a potential difference (p.d)?

Energy

Question No:57

(Marks:1)

Vu-Topper RM

Work done on a charged particle moving in uniform magnetic field is:

Zero

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Question No:58 (Marks:1) **Vu-Topper RM**

Which of the following is equivalent to 1 V?

1 Joule/1 coulomb = 1 J/C

Question No:59 (Marks:1) **Vu-Topper RM**

If I_0 is the peak value of an AC supply, then its rms value is given as I_{rms} ?:

$I_0/\text{square root}2$

Question No:60 (Marks:1) **Vu-Topper RM**

Heat has the same units as:

Work

Question No:61 (Marks:1) **Vu-Topper RM**

Which of the following types of electromagnetic radiation at the vacuum?

(Radio, gamma, x)rays All of these travel at the same speed

Question No:62 (Marks:1) **Vu-Topper RM**

Inductive reactance X_L of an inductor is π

$2(\pi)fl$

Question No:63 (Marks:1) **Vu-Topper RM**

The sum of electric and magnetic force is called

Lorentz force

Question No:64 (Marks:1) **Vu-Topper RM**

Kirchhoff's 2nd rule is the manifestation of the law of conservation of

Energy

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Question No:65

(Marks:1)

Vu-Topper RM

The total energy in an circuit is $5.0 * 10^{-6}$ J. if $L=25\text{mH}$ the maximum current is:

20mA

Question No:66

(Marks:1)

Vu-Topper RM

The potential difference between the ends of a conductor is 12V. How much electrical energy is converted to other forms of energy in the conductor when 100C of charge flows through it?

1200J

Question No:67

(Marks:1)

Vu-Topper RM

The Focal length of convex lens is:

Positive

Question No:68

(Marks:1)

Vu-Topper RM

The AC circuit in which current and voltage are in phase the power factor is

1

Question No:69

(Marks:1)

Vu-Topper RM

The known laws of electromagnetism before James Clerk Maxwell were following
EXCEPT

Faraday's Law

Question No:70

(Marks:1)

Vu-Topper RM

When some dielectric is inserted between the plates of a capacitor, then capacitance;

Increased

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Question No:71

(Marks:1)

Vu-Topper RM

Which of the following is NOT the characteristics of electromagnetic waves?

They can travel with different speeds in vacuum depending on $0.4m$

Question No:72

(Marks:1)

Vu-Topper RM

The quantity of $\Delta V/\Delta r$ is called

Potential gradient

Question No:73

(Marks:1)

Vu-Topper RM

Which electromagnetic radiation transmits the highest photon energy?

Gamma rays

Question No:74

(Marks:1)

Vu-Topper RM

The reaction of an particle at 50 Hz is 10.0 its reactance at 100Hz becomes

5.0

Question No:75

(Marks:1)

Vu-Topper RM

Select the correct statement

Gamma Rays have higher frequency than infrared waves

Question No:76

(Marks:1)

Vu-Topper RM

Potentiometer can be used as

Potential divider

Question No:77

(Marks:1)

Vu-Topper RM

All of the followings are the different types of mental images; people generally experience them while close their eyes Except:

Solving an algebra equations

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Question No:78

(Marks:1)

Vu-Topper RM

The nation that motivational state of the organism is understood and explained in terms of positive and negative environmental stimuli BEST connects to;

Incentive approaches

Question No:79

(Marks:1)

Vu-Topper RM

If one wants to increase the capacity of short-term memory, through which process more items can be held?

Chunking

Question No:80

(Marks:1)

Vu-Topper RM

If potential difference across two plates of a capacitor is doubled, then

Four times

Question No:81

(Marks:1)

Vu-Topper RM

How could the unit of potential difference the volt also be written?

J/C

Question No:82

(Marks:1)

Vu-Topper RM

If magnetic field is doubled then magnetic energy density becomes

Four times

Question No:83

(Marks:1)

Vu-Topper RM

The primary of a 3.1 step-up transformer is connected to a source and the secondary this situation is P. If R is connected directly to the source it will dissipate a power of:

P/9

Question No:84

(Marks:1)

Vu-Topper RM

A particle having $2e$ charge falls through a potential difference of 5.V energy acquired by it is

10 eV

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Question No:85

(Marks:1)

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The combined effect of resistance and reactance is known as

Impedance

Question No:86

(Marks:1)

Vu-Topper RM

A transparent refracting medium bounded by the two curved surfaces called

Prism

Question No:87

(Marks:1)

Vu-Topper RM

A student rubs a rod held in his hand. Which action causes the rod to gain a large electrostatic charge

Rubbing a polythene rod with a woolen duster

Question No:88

(Marks:1)

Vu-Topper RM

A charge of 30 C flows through an electric appliance in 2.0 minutes. What is the average current in the appliance?

0.25A

Question No:89

(Marks:1)

Vu-Topper RM

Total flux through a closed surface depends on

Charge and -N

Question No:90

(Marks:1)

Vu-Topper RM

Electromagnetic waves emitted from antenna are

Transverse

Question No:91

(Marks:1)

Vu-Topper RM

Two parallel straight wires carrying current in same direction will.

Attract each other

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Question No:92 (Marks:1) **Vu-Topper RM**
Charge carriers in electrolysis are:
Positive and negative ions

Question No:93 (Marks:1) **Vu-Topper RM**
A detector is used to detect the speed at a particular wave if the frequency of an electromagnetic signal is 400 MHz, the speed define the detector is
300000 km/s

Question No:94 (Marks:1) **Vu-Topper RM**
The product of resistance and capacitance is called
Time

Question No:95 (Marks:1) **Vu-Topper RM**
Greenhouse gases absorb ____ radiation
Infrared

Question No:96 (Marks:1) **Vu-Topper RM**
Electromagnetic waves do not transport
Charge

Question No:97 (Marks:1) **Vu-Topper RM**
Electric energy is measured :
Watt

Question No:98 (Marks:1) **Vu-Topper RM**
Of the following which might NOT vanish over one cycle of a cyclic process?
The work done by the substance

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Question No:99

(Marks:1)

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The most refined form of matter is:

Light

Question No:100

(Marks:1)

Vu-Topper RM

In Compton scattering from stationary particles the maximum change in wavelength can be made smaller by using.

More massive particles

Question No:101

(Marks:1)

Vu-Topper RM

Hotness or coldness of an object is represented in terms of:

Temperature

Question No:102

(Marks:1)

Vu-Topper RM

The unit of thermal conductivity might be:

Cal/(cm*s*C?)

Question No:103

(Marks:1)

Vu-Topper RM

It is more difficult to measure the coefficient of volume expansion of a liquid than that of a solid because?

The containing vessel also expands

Question No:104

(Marks:1)

Vu-Topper RM

When we accelerate the charge, which types of waves are produced?

Electromagnetic waves

Question No:105

(Marks:1)

Vu-Topper RM

Due to relative motion of observer and the frames of reference of events, time always:

Slows itself

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Question No:106

(Marks:1)

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The allowed energy states of atoms or molecules can be described by a set of _____.

Quantum numbers

Question No:107

(Marks:1)

Vu-Topper RM

Probability values are assigned on a scale of

0 to 1

Question No:108

(Marks:1)

Vu-Topper RM

The magnitude of the momentum of a particle can never exceed:

E/c, where E is its total energy

Question No:109

(Marks:1)

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The ratio of the size of image to the size of object.

Angular magnification

Question No:110

(Marks:1)

Vu-Topper RM

When white light passes through a prism, it splits into _____ colors.

7

Question No:111

(Marks:1)

Vu-Topper RM

A heat of transformation of a substance is:

The energy per unit mass absorbed as heat during a phase transformation

Question No:112

(Marks:1)

Vu-Topper RM

If electric and gravitational force on an electron in a uniform electric field balance each other, then the intensity of electric field will be:

Mg/q

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Question No:113

(Marks:1)

Vu-Topper RM

During a slow adiabatic expansion of a gas No energy enters or leaves as heat

52

Question No:114

(Marks:1)

Vu-Topper RM

The electron states that constitute a single shell for an atom all have:

The same value of n

Question No:115

(Marks:1)

Vu-Topper RM

An isothermal process for an ideal gas is represented on a p-V diagram by:

A portion of a hyperbola

Question No:116

(Marks:1)

Vu-Topper RM

The concept of an electric field lines is introduced by:

Faraday

Question No:117

(Marks:1)

Vu-Topper RM

The pauli exculsion principle is obeyed by:

All particles with spin quantum numbers of $\frac{1}{2}$

Question No:118

(Marks:1)

Vu-Topper RM

An electron ($m=9.11 \times 10^{-31} \text{kg}$) has a speed of $0.95c$. its kinetic energy is;

$1.8 \times 10^{-31} \text{J}$

Question No:119

(Marks:1)

Vu-Topper RM

An electron ($m=9.11 \times 10^{-31} \text{kg}$) has a momentum of $4.0 \times 10^{-22} \text{kg} \cdot \text{m/s}$. Its kinetic energy:

$6.3 \times 10^{-14} \text{J}$

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Question No:120

(Marks:1)

Vu-Topper RM

Force on a charged particle is zero when projected at angle with the magnetic field

0 degree

Question No:121

(Marks:1)

Vu-Topper RM

In case of metallic conductors, the charge carriers are.

Electrons

Question No:122

(Marks:1)

Vu-Topper RM

As compared to distance measured by an observer on Earth, the distance from earth star measured by an observer in a moving spaceship would seem:

Same

Question No:123

(Marks:1)

Vu-Topper RM

Evidence that a gas consists mostly of empty space is the fact that The density of a gas becomes much greater when it is

Liquefied

Question No:124

(Marks:1)

Vu-Topper RM

For an electron, the rest mass energy is:

0.511 MeV

Question No:125

(Marks:1)

Vu-Topper RM

Antiparticle of electron is:

Positron

Question No:126

(Marks:1)

Vu-Topper RM

According to the first law of thermodynamics, applied to a gas, the increase in the internal energy during any process

Equals the heat input plus the work done on the gas

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Question No:127

(Marks:1)

Vu-Topper RM

The approach to personality stresses that people possess a basic goodness, and have a natural tendency to grow to higher levels of functioning is.

Humanistic

Question No:128

(Marks:1)

Vu-Topper RM

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

The energy of the most energetic electron after it is ejected

Question No:129

(Marks:1)

Vu-Topper RM

There is a temperature at which the reading on the kelvin scale is numerically:

Equal to that on the Celsius scale

Question No:130

(Marks:1)

Vu-Topper RM

When you stand in front of a plane mirror, your image is:

Virtual, erect and the same size as you

Question No:131

(Marks:1)

Vu-Topper RM

The process for which entropy remains constant is:

A reversible process

Question No:132

(Marks:1)

Vu-Topper RM

The appearance of colors in thin film is due to:

Interference

Question No:133

(Marks:1)

Vu-Topper RM

The theoretical upper limit for the frequency of electromagnetic waves is:

There is no upper limit

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Question No:134

(Marks:1)

Vu-Topper RM

Capacitance of a capacitor in vacuum is given by:

$\epsilon_0 A/d$

Question No:135

(Marks:1)

Vu-Topper RM

An electron in a K shell of an atom has the principal quantum number:

$n = 1$

Question No:136

(Marks:1)

Vu-Topper RM

Bending of light around the edges of an obstacle called:

Diffraction

Question No:137

(Marks:1)

Vu-Topper RM

Interface of light is evidence that:

Light is a wave phenomenon

Question No:138

(Marks:1)

Vu-Topper RM

In a photoelectric effect experiment at a frequency above cut off the number of electrons ejected is proportional to:

The number of photons that hit the sample

Question No:139

(Marks:1)

Vu-Topper RM

In a photoelectric effect experiment the stopping potential is:

The electric potential that causes the electron current to vanish

Question No:140

(Marks:1)

Vu-Topper RM

A free electron and a free proton have the same kinetic energy. This means that, compared to the matter wave associated with the proton, the matter wave associated with the electron has:

A longer wavelength and the same frequency

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Question No:141

(Marks:1)

Vu-Topper RM

Polarization experiments provide evidence that light is:

A transverse wave

Question No:142

(Marks:1)

Vu-Topper RM

If light of low wavelength is used in young's double slit experiment, then width of the fringe will:

Decreases

Question No:143

(Marks:1)

Vu-Topper RM

Lenz's law is in accordance with law of conservation of

Energy

Question No:144

(Marks:1)

Vu-Topper RM

According to relatively theory a particle of mass m with a momentum of $2mc$ has a speed of:

$c/2$

Question No:145

(Marks:1)

Vu-Topper RM

The two metallic strips that constitute some thermostats must differ in:

Coefficient of linear expansion

Question No:146

(Marks:1)

Vu-Topper RM

Phase difference between V and I of an AC through resistor is:

0 degree

Question No:147

(Marks:1)

Vu-Topper RM

Average value of current and voltage over complete cycle is:

Zero

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