Phy-101 Important Mcq's
For Final Term !!
Solve By Vu-Topper RM!!



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:

Virtual, erect, and larger than the object

Virtual, erect, and smaller than the object

Real, erect, and larger than the object

Real, 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?

His face

Your face

The movie camera (Correct)

The director's face

Question No:3 **(Marks:1)** **Vu-Topper RM**

A femtometer is:

10-9 m

10-12 m

10-15 m

10-18 m

Question No:4 **(Marks:1)** **Vu-Topper RM**

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

Meters

Diopters

Lense meter (Correct)

Provatans

Question No:5 **(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:6 (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 _____.

Below 800 degree C

Between 800 degree C to 1600 degree C

Between 1600 degree C to 2500 degree C

above 2500 degree C

Question No:7 (Marks:1) Vu-Topper RM

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

to create a path length difference

to increase the intensity

one slit is for frequency, the other for wavelength

one slit is for Electric fields , the other is for Magnetic fields

Question No:8 (Marks:1) Vu-Topper RM

An electron is moving at 0.6c.If we calculate its kinetic energy using (1/2) mv2, we get a result that is:

Just right

Just half enough

Twice the correct value

About 28% too low (Correct)

Question No:9 (Marks:1) Vu-Topper RM

During a slow adiabatic expansion of a gas:

The pressure remains constant

Energy is added as heat

Work is done on the gas

No energy enters or leaves as heat

Question No:10 (Marks:1) Vu-Topper RM

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

just slightly greater than that of red light

there is no upper limit

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Question No:11 **(Marks:1)** **Vu-Topper RM**

One revolution is the same as:

1 rad

57 rad

π/2 rad

π rad

2π rad

Question No:12 **(Marks:1)** **Vu-Topper RM**

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

All the forces must be applied at the same point

all the forces must be applied at the same point

all of the forces form pairs of equal and opposite forces

any two of these forces must be balanced by a third force

Question No:13 **(Marks:1)** **Vu-Topper RM**

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

given by

C1C2/(C1 + C2)

(C1 + C2)/C1C2

1/(C1 + C2)

C1/C2

Question No:14 **(Marks:1)** **Vu-Topper RM**

If the potential difference across a resistor is doubled:

only the current is doubled

only the current is halved

only the resistance is doubled

only the resistance is halved

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Question No:15 **(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 16 Ω. The values of R1 and R2 (in ohms) are:

3, 4

2, 12

3, 16

4, 12

Question No:16 **(Marks:1)** **Vu-Topper RM**

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

the rate of change of the electric field

the rate of change of the magnetic flux

the rate of change of the electric flux

the rate of change of the magnetic field

Question No:17 **(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:

1000V

500V

250V

100V

Question No:18 **(Marks:1)** **Vu-Topper RM**

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

blue light

yellow light

x rays

radio waves

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Question No:19 (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:
1 F
1mF
1 μF
100 μF

Question No:20 (Marks:1) Vu-Topper RM

The wavelength of red light is 700 nm. Its frequency is _____.
4.30 * 104 Hertz
4.30 * 103 Hertz
4.30 * 105 Hertz
4.30 * 102 Hertz

Question No:21 (Marks:1) Vu-Topper RM

Which of the following statements is NOT TRUE about electromagnetic
waves?
Electromagnetic waves satisfy the Maswell's Equation.
Electromagnetic waves can not travel through space.
The receptions of electromagnetic waves require an antenna.
The electromagnetic radiation from a burning candle is unpolarized.

Question No:22 (Marks:1) Vu-Topper RM

Radio waves and light waves are
Longitudinal waves
Transverse waves
Electromagnetic and transverse both

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Question No:23 **(Marks:1)** **Vu-Topper RM**

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

a change in entropy

a decrease of internal energy

an increase of pressure

a change in temperature

Question No:24 **(Marks:1)** **Vu-Topper RM**

The Stern-Gerlach experiment makes use of:

a strong uniform magnetic field

a strong non-uniform magnetic field

a strong uniform electric field

a strong non-uniform electric field

Question No:25 **(Marks:1)** **Vu-Topper RM**

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

linear acceleration

rotational equilibrium

angular acceleration

rotational inertia

Question No:26 **(Marks:1)** **Vu-Topper RM**

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

Decrease

Increase

Remain the same

None of these

Question No:27 **(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

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Question No:28 **(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:29 **(Marks:1)** **Vu-Topper RM**

In RL series circuit phase angle is given by:

Tan-1(wl/R)

Question No:30 **(Marks:1)** **Vu-Topper RM**

Which of the following have the greatest wavelength?

Radio waves

Question No:31 **(Marks:1)** **Vu-Topper RM**

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

A circular path

Question No:32 **(Marks:1)** **Vu-Topper RM**

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

Thermal equilibrium

Question No:33 **(Marks:1)** **Vu-Topper RM**

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

Electromagnetic waves

Question No:34 **(Marks:1)** **Vu-Topper RM**

A step-down transformer is used to:

Decrease the voltage

Question No:35 **(Marks:1)** **Vu-Topper RM**

In an adiabatic process:

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

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Question No:36 **(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:37 **(Marks:1)** **Vu-Topper RM**

Capacitive reactance Xc is:

1/2 π fc

Question No:38 **(Marks:1)** **Vu-Topper RM**

Force per unit charge is:

Electric field.

Question No:39 **(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:40 **(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:41 **(Marks:1)** **Vu-Topper RM**

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

Zero

Question No:42 **(Marks:1)** **Vu-Topper RM**

Which of the following is equivalent to 1 V?

1 Joule/1 coulomb = 1 J/C

Question No:43 **(Marks:1)** **Vu-Topper RM**

If Io is the peak value of an AC supply, then its rms value is given as Irms:?phy101]

IO/square root2

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Question No:44 **(Marks:1)** **Vu-Topper RM**

Heat has the same units as:

Work

Question No:45 **(Marks:1)** **Vu-Topper RM**

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

All of these travel at the same speed

Question No:46 **(Marks:1)** **Vu-Topper RM**

Inductive reactance XL of an inductor is pi

2(pi)Fl

Question No:47 **(Marks:1)** **Vu-Topper RM**

The sum of electric and magnetic force is called

Lorentz force

Question No:48 **(Marks:1)** **Vu-Topper RM**

Radio waves and light waves are _____.

Electromagnetic and transverse

Question No:49 **(Marks:1)** **Vu-Topper RM**

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

Energy

Question No:50 **(Marks:1)** **Vu-Topper RM**

The total energy in an circuit is 5.0 * 10-6 J. if L=25mH the maximum current is:

20mA

Question No:51 **(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

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Question No:52 (Marks:1) Vu-Topper RM

The Focal length of convex lens is:

Positive

Question No:53 (Marks:1) Vu-Topper RM

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

1

Question No:54 (Marks:1) Vu-Topper RM

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

4.29*10^14 hertz

Question No:55 (Marks:1) Vu-Topper RM

The known laws of electromagnetism before James Clerk Maxwell were following

EXCEPT

Faraday's Law

Question No:56 (Marks:1) Vu-Topper RM

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

Increased

Question No:57 (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 on0.4m

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

The quantity of deltaV/deltar is called

Potential gradient

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

Which electromagnetic radiation transmits the highest photon energy?

Gamma rays

Question No:60 (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:61 (Marks:1) Vu-Topper RM

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

Zero

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

Select the correct statement

Gamma Rays have higher frequency than infrared waves

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

Potentiometer can be used as

Potential divider

Question No:64 (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

Question No:65 (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:66 (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

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Question No:67 **(Marks:1)** **Vu-Topper RM**

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

Four times

Question No:68 **(Marks:1)** **Vu-Topper RM**

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

J/C

Question No:69 **(Marks:1)** **Vu-Topper RM**

If magnetic field is doubled then magnetic energy density becomes

Four times

Question No:70 **(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:71 **(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

Question No:72 **(Marks:1)** **Vu-Topper RM**

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

1000V

Question No:73 **(Marks:1)** **Vu-Topper RM**

The combined effect of resistance and reactance is known as

Impedance

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Question No:74 **(Marks:1)** **Vu-Topper RM**

A transparent refracting medium bounded by the two curved surfaces called

Prism

Question No:75 **(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:76 **(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:77 **(Marks:1)** **Vu-Topper RM**

Total flux through a closed surface depends on

Charge and -N

Question No:78 **(Marks:1)** **Vu-Topper RM**

Electromagnetic waves emitted from antenna are

Transverse

Question No:79 **(Marks:1)** **Vu-Topper RM**

Two parallel straight wires carrying current in same direction will.

Attract each other

Question No:80 **(Marks:1)** **Vu-Topper RM**

Charge carriers in electrolysis are:

Positive and negative ions

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Question No:81 **(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:82 **(Marks:1)** **Vu-Topper RM**

The product of resistance and capacitance is called

Time

Question No:83 **(Marks:1)** **Vu-Topper RM**

Greenhouse gases absorb ____ radiation

Infrared

Question No:84 **(Marks:1)** **Vu-Topper RM**

Electromagnetic waves do not transport

Charge

Question No:85 **(Marks:1)** **Vu-Topper RM**

Electromagnetic and transverse both

Longitudinal waves

Transverse waves

Electromagnetic and transverse both

Electromagnetic and longitudinal both

Question No:86 **(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

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Question No:87 **(Marks:1)** **Vu-Topper RM**

Room temperature is about 20 degrees on the:

Kelvin scale

Celsius scale

Fahrenheit scale

Absolute scale

Question No:88 **(Marks:1)** **Vu-Topper RM**

A particle with zero mass and energy E carries momentum:

Ec

Ec2

vEc

E/c

Question No:89 **(Marks:1)** **Vu-Topper RM**

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

Wave nature of matter

Particle nature of matter

Wave nature of radiation

Particle nature of radiation

Question No:90 **(Marks:1)** **Vu-Topper RM**

During a slow adiabatic expansion of a gas:

The pressure remains constant

Energy is added as heat

Work is done on the gas

No energy enters or leaves as heat

Question No:91 **(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 × 108 N/m2. The elongation of the rod is:

0.55mm

1.42mm

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Question No:92 (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:

2Hz

0.5 s

0.5Hz

2 s

Question No:93 (Marks:1) Vu-Topper RM

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

Mechanical

Electromagnetic

Transverse

Longitudinal

Question No:94 (Marks:1) Vu-Topper RM

The flow rate of blood through the average human aorta is about 9.0 ? 101 cm3/s. If the aorta has a radius of 1.0 cm, what is the velocity of the blood flow?

14 cm/s

32 cm/s

37 cm/s

29 cm/s

Question No:95 (Marks:1) Vu-Topper RM

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

Metal contractst more han water

Outside of the pipe contracts more than the inside

Metal becomes brittle when cold

Water expands when it freezes

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Question No:96 **(Marks:1)** **Vu-Topper RM**

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

To create a path length difference

Question No:97 **(Marks:1)** **Vu-Topper RM**

Which of the following types of electromagnetic radiation travels at the greatest speed in vaccum?

(Radio, gamma, x)rays .

Question No:98 **(Marks:1)** **Vu-Topper RM**

Electric energy is measured :

Watt

Question No:99 **(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

Question No:100 **(Marks:1)** **Vu-Topper RM**

The most refined form of matter is:

Light

Question No:101 **(Marks:1)** **Vu-Topper RM**

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

J/C

Question No:102 **(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:103 **(Marks:1)** **Vu-Topper RM**

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

Temperature

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Question No:104 **(Marks:1)** **Vu-Topper RM**

The unit of thermal conductivity might be:

Cal/(cm*s*C?)

Question No:105 **(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:106 **(Marks:1)** **Vu-Topper RM**

A transparent refracting medium bounded by the two curved surfaces called:

Prism

Question No:107 **(Marks:1)** **Vu-Topper RM**

It is more di? Cult to measure the coe? Cient of volume expansion of a liquid than that of a solid because?

The containing evessel aslo xpands

Question No:108 **(Marks:1)** **Vu-Topper RM**

The product of resistance and capacitance is called

Time

Question No:109 **(Marks:1)** **Vu-Topper RM**

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

1200

Question No:110 **(Marks:1)** **Vu-Topper RM**

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

Electromagnetic waves

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Question No:111 (Marks:1) Vu-Topper RM

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

Statics itself

Question No:112 (Marks:1) Vu-Topper RM

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

Quantum numbers

Question No:113 (Marks:1) Vu-Topper RM

Probability values are assigned on a scale of

0 to 1

Question No:114 (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:115 (Marks:1) Vu-Topper RM

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

Angular magnification

Question No:116 (Marks:1) Vu-Topper RM

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

7

Question No:117 (Marks:1) Vu-Topper RM

Electromagnetic waves do not transport:

Charge

Question No:118 (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

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Question No:119 (Marks:1) Vu-Topper RM

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

X rays

Question No:120 (Marks:1) Vu-Topper RM

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

Thermal equilibirium

Question No:121 (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

Question No:122 (Marks:1) Vu-Topper RM

Electromagnetic waves do not transport:

Charge

Question No:123 (Marks:1) Vu-Topper RM

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

52.

Question No:124 (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:125 (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

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Question No:126 **(Marks:1)** **Vu-Topper RM**

The concept of an electric field lines is introduced by:

Faraday

Question No:127 **(Marks:1)** **Vu-Topper RM**

The current in a car headlamp is 2.0A. The headlamp is switched on for 30 minutes. How much charge passes through the headlamp?

360 C

Question No:128 **(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?

The movie camera

Question No:129 **(Marks:1)** **Vu-Topper RM**

The pauli exculusion principle is obeyed by:

All particles with spin quantum numbers of ½

Question No:130 **(Marks:1)** **Vu-Topper RM**

The focal length of convex lens is:

Positive

Question No:131 **(Marks:1)** **Vu-Topper RM**

An electron (m=9.11 * 10-31kg) has a speed of 0.95C. its kinetic energy is;

1.8*10-31J

Question No:132 **(Marks:1)** **Vu-Topper RM**

An electron (m=9.11 x 10-31kg) has a speed of 4.0.95C. Its kinetic energy is:

1.8x10-13J

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Question No:133 (Marks:1) Vu-Topper RM

An electron (m=9.11 x 10-31kg) has a momentum of 4.0x10-22kg*m/s. Its kinetic energy:

6.3*10-14J

Question No:134 (Marks:1) Vu-Topper RM

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

0 degree

Question No:135 (Marks:1) Vu-Topper RM

If potential difference across two plates of a capacitor is doubled, then energy stored in it will be:

Four times

Question No:136 (Marks:1) Vu-Topper RM

In case of metallic conductors, the charge carriers are.

Electrons

Question No:137 (Marks:1) Vu-Topper RM

Room temperature is about 20 to 22 degrees on the:

Celcius scale

Question No:138 (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:139 (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

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Question No:140 **(Marks:1)** **Vu-Topper RM**

For an electron, the rest mass energy is:

0.511 MeV

Question No:141 **(Marks:1)** **Vu-Topper RM**

Antiparticle of electron is:

Position

Question No:142 **(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

Question No:143 **(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:144 **(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:145 **(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:146 **(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

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Question No:147 **(Marks:1)** **Vu-Topper RM**

The process for which entropy remains constant is:

A reversible process

Question No:148 **(Marks:1)** **Vu-Topper RM**

The appearance of colors in thin film is due to:

Interference

Question No:149 **(Marks:1)** **Vu-Topper RM**

Greenhouse gases absorb _____ radiation

Infrared

Question No:150 **(Marks:1)** **Vu-Topper RM**

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

There is no upper limit

Question No:151 **(Marks:1)** **Vu-Topper RM**

Heat has the same units as:

Work

Question No:152 **(Marks:1)** **Vu-Topper RM**

Capacitance of a capacitor in vaccum is given by:

A eo /d

Question No:153 **(Marks:1)** **Vu-Topper RM**

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

N =1

Question No:154 **(Marks:1)** **Vu-Topper RM**

Bending of light around the edges of an obstacle called:

Diffraction

Question No:155 **(Marks:1)** **Vu-Topper RM**

In RL series circuit phase angle is given by:

Tan-1(wl/R)

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Question No:156 **(Marks:1)** **Vu-Topper RM**

Interface of light is evidence that:

Light is a wave phenomenon

Question No:157 **(Marks:1)** **Vu-Topper RM**

In a photoelectric e? ect experiment at a frequency above cut o? the number of electrons ejected is proportional to:

The number of photons that hit the sample

Question No:158 **(Marks:1)** **Vu-Topper RM**

In a photoelectric e? ect ecperiment the stopping potential is:

The electric potential that causes the electron current to vanish

Question No:159 **(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:160 **(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

Question No:161 **(Marks:1)** **Vu-Topper RM**

Polarization experiments provide evidence that light is:

A transverse wave

Question No:162 **(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

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Question No:163 (Marks:1) Vu-Topper RM

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

Energy…

Question No:164 (Marks:1) Vu-Topper RM

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

Faraday's Law

Question No:165 (Marks:1) Vu-Topper RM

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

10eV

Question No:166 (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:167 (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:168 (Marks:1) Vu-Topper RM

The two metallic strips that constitute some thermostats must di? Er in:

Coefficient of linear expansion

Question No:169 (Marks:1) Vu-Topper RM

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

0 degree

Question No:170 (Marks:1) Vu-Topper RM

Average value of current and voltage over complete cycle is:

Zero

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Question No:171 **(Marks:1)** **Vu-Topper RM**

A detector is used to detect the speed of a particular wave. If the frequency of an electromagnetic signal is 400 MHz, the speed detected by detector is _____.

300000 km/s

