

[10/08 8:16 am] +92 303 3511867: PAF GDP
Physics mcqs which are frequently use till 146 GDP.

1-the study of charges at rest is called as:

electrostatics

2-the conversion of matter into energy includes the phenomenon of:

annihilation of matter

3-A photon loses all its entire energy during:

photoelectric effect

4- the capacitance of two capacitors combined in parallel would be:

2C

5-one light year=:

a- $9.5 \times 10^{15} \text{m}$

6-the energy of a photon of wavelength 1 angstrom?

1.989×10^{-15}

7-if the temperature of sun is increased 4 times then what would be the effect on the beat of earth?

a- 8

b- 4

c-16

8- a forward biased pn junction is:

closed switch

9-a reverse biased pn junction is:

off switch

10- in a pure resistive circuit voltage and current are:

inphase

11-the unit of viscosity is:

Nsm^{-2}

12- the angular acceleration of a body having 2Nm^{-2} moment of inertia and 2000 torque is:

1000rad/s^2

13-the no. Of significant figures in 0.0001 is:

one

14-if two vectors of equal magnitude have a resultant also equal to their magnitude then the angle between them is:

120°

15- in the absence of an external force, the momentum of the body:

remains conserved

16- which of the following is a non conservative force:

frictional force

17- the velocity required to escape the earth's surface is:

11 kms^{-1}

18- the relationship between linear and angular frequency is:

unknow answer

19- the force acting on a satellite is:

mv^2/r

20- the unit for spin angular momentum is?

A joule second

21- for a body moving upwards:

$w+ma$

22-the place where area increases the velocity:

decreases

23- the angular acceleration is equal to:

$-\omega^2 x$

24- which angle tells the displacement and direction as well:

phase

25- the energy absorption for resonance is:

maximum

26- which waves are standing waves:

a- electromagnetic

b- longitudinal

c- transverse

27- for an aeroplane moving towards the airport the apparent frequency:

decreases

28- energy can neither be created nor destroyed is:

1st law

29- F/q is:

electric field intensity

30- resistivity is dependent on:

temperature

31- the motional emf of the rod increases with:

increase in velocity

32- a pn junction could be used as:

rectifier

33- the square of the average value is called:

mean square

34- the ratio of stress to strain is:

elastic modulus

35- stress is proportional to strain according to which law:

Hooke's law

36- high carbon steel is an example of;

brittle substance

37- a p type semiconductor results when the impurity is added from:

3rd group

38- the charge on a p type semiconductor is:

neutral

39- a photodiode is operated in:

reverse biasing

40- the most suitable idealization of black body is:

blackened surface with a hole

41- the emission of electron from a surface is:

photoelectric effect

42- the frequency in Compton effect:

decreases

43- photo electric effect shows the:

particle nature of light

44- the ionization potential energy for an electron is:

-13.6eV

45- the correct relation is:

half life= $0.693/\lambda$

46- a neutron is equal to:

one up n two down quarks

47- unit of mutual induction:

Henry H= A/S

48- phase change when wave travelled from denser to rare medium:

No phase change

49- capacitance in parallel combination :

V= same and Q = different

50- capacitance in series combination :

V= different and Q = same

51- unit of power in case of volt:

Watt

52- helium atom is :

Alpha particle

53- photo electric effect show which nature of sub atomic particle:

Partical nature

54- what happen to frequency when source moves away from observer:

Pitch of sound decreas

55- when observer is in condition of moving what will be constant:

Wave length

56- when source moving then:

Velocity $V = \text{constant}$

57- dual nature mean :

Wave behave like partical and partical behave like wave

58- what happend to wave length and pitch of sound when observer move closer to source:

Wave length same and pitch of sound increase

59- who deviced the dual nature of sub atomic partical:

Debroglie in 1924

60- threshod frequency depend upon what:

Nature of material / metal and frequency of photon or incident photon frequency

61- unit of viscosity:

Nsm^{-2}

62- unit of induction :

Henry $H = \text{A/s}$

63- the process when mass converted into energy :

Inhellation of matter

64- the emission power of black body is:

Highest monochromatic at all wavelength

65- the length of pendulum increase by 4 times then time period will be :

Two

66- which reaction take place in sun:

Fusion reaction

67- when light wave travelled from denser to rare medium its phase difference will be:

No phase change

68- semi conductor has valence band:

Half valence band

69- empty conductor band is :

Band of orbital that are high in energy and no free electron

70- addition of impurity to semi conductor is called:

Doping

71- P type material contain:

Holes

72- holes are particles that:

Vacancy of electron

73- the largest e/m ratio is of :

Electron

74- the absorption power of black body radiation is :

Remain same or constant

75- donor doping is in:

N type material

76- acceptor doping is in:

P type material

77- when a paratrooper jumps from plain . His weight before opening parachute is :

Double

78- weight of man on going up:

Decrease

79- 1 radian is equal to :

$$360^\circ / 2\pi = 57.3^\circ$$

80- dimension of viscosity:

$$[M^\circ L^{-1} T^{-1}]$$

81- dimension of acceleration :

$$[M^\circ L^\circ T^{-2}]$$

82- dimension of power:

$$[M^\circ L^2 T^{-3}]$$

83- unit of power:

$$Js^{-1} = kg\ m^2 s^{-3}$$

84- direction of current and potential difference :

In Phase

85- unit vector of $4i, 2j, 4k$:

86- cross product of $4i$, $6j$:

87- if $\sum \tau = 0$ and $\sum F = 0$ then is it equilibrium :

Yes it is equilibrium

88- mechanical wave required :

Medium

89- example of transverse wave :

Light wave (mechanical wave)

90- what is standing wave:

Stationary wave

91- photo electric effect occur in :

Ultra violet light

92- centripetal force $F = ?$

$F = mv^2 / r$

93- direction of centripetal force:

Toward the center of circle

94- when a body move with speed of light its mass will be:

Zero (because weightlessness created)

95- holes are :

P type material and negative by nature

96- in conductor the valence band is :

Valence band is above the bottom of conduction band.

97- germanium and silicon has valency of:

4 valence

98- when impurity added to germanium from 5th group the it is called :

Pentavalent (N type)

99- 2 capacitor are joined parallel the equivalent capacitor is :

2C

100- energy on sun due to:

Nuclear fusion

101- formula for acceleration in SHM:

102- ammeter used to measure:

Electric current

103- primary $V = 220$. If number of turn increase in secondary coil then what will be resistance :

Same

104- highest e/m ratio is :

Electron

105- dimension of self induction :

$[M^{\circ} L^2 T^{-2} A^{-2}]$

106- $1 \text{ eV} = ?$

$1.602 \times 10^{-19} \text{ J}$

107- magnetic lines are called :

Line of force

108- coulomb force $F = ?$

$$F = k q_1 q_2 / r^2$$

109- alpha particles :

Helium nuclei

110- absolute zero in Fahrenheit scale:

459.67

111- unit of magnetic flux:

Weber Nm/A

112- spectrum of black body:

Continuous spectrum

113- second ionization of mercury:

$X^+ \quad X^{2+} + e$

114- device which just run AC voltage

Transformer, capacitor, inductor and resistor etc

115- when perpendicular force act on body it will move on :

No motion but produce torque

116- unit of magnetic flux density:

Tesla $T = \text{wb}/\text{m}^2$

117- equation of continuity:

$A_1 V_1 = A_2 V_2$

118- particle nature shown by :

Photoelectric effect, Compton effect, pair production and e/m ratio of electron

119- wave nature:

Interference, diffraction, polarization etc

120- when source moving then:

Wavelength = decrease, $v = \text{constant}$ and $f = \text{increase}$

121- when observer moving then:

Wavelength = constant, $v = \text{increase}$, $f = \text{increase}$

122- mass convert to energy is:

Annihilation of matter

123- energy convert to mass:

Pair production.

124- in black body when temperature increase then:
Radiation will be richer in shorter wavelength

125- in black body when temperature decrease then:
Radiation will be richer in high wavelength

126- temperature inversely proportional to wavelength only in case of:
Black body radiation

127- semi conductor is:
Partially filled Valence and conduction band

128- p type material :
Holes (trivalent)

129- N type material:
Electron (pentavalent)

130- direction of centripetal force is toward:
Center of circle and remain constant

131- $0^{\circ}\text{K} = ?$
 273.16°C

132- formula for kelvin K:
 $K = C^{\circ} + 273$

133- formula for fahrenheit F:
 $F = 9/5 (C^{\circ} + 32)$

134- formula for centigrade C:
 $C^{\circ} = 5/9 (F - 32)$

..... best of luck

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