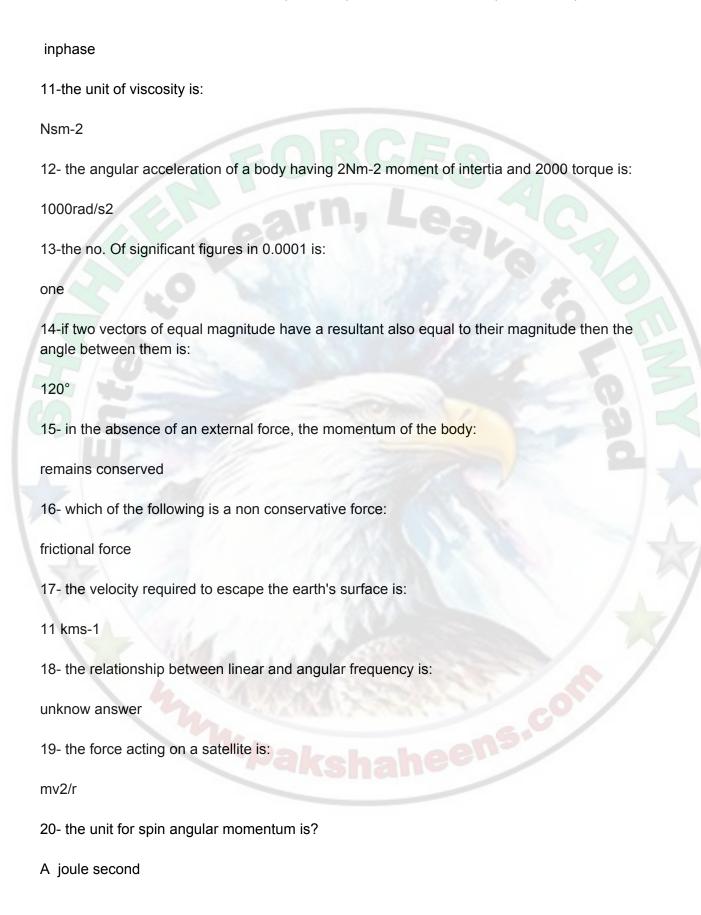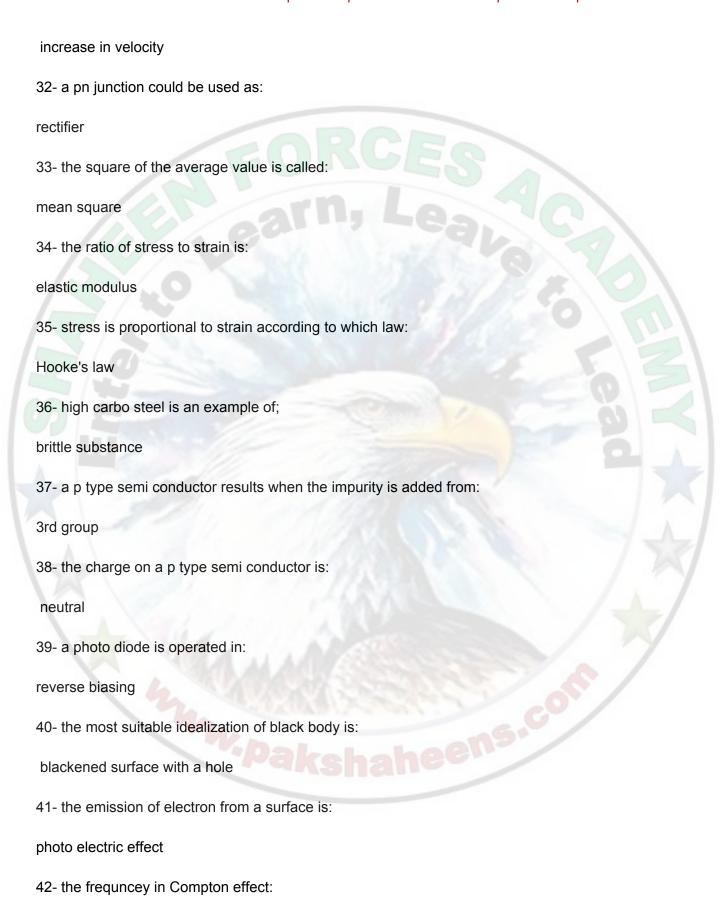[10/08 8:16 am] +92 303 3511867: PAF GDP
Physics mcqs which are frequently use till 146 GDP.

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- 9.5x1015m

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

1.989x10-15

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 for award biased pn junction is:

closed switch

9-a reverse biased on 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 intertia and 2000 torque is:

1000rad/s2

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:

mv2/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 square x

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

phase

25- the energy absorption for reaonace 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 carbo steel is an example of;

brittle substance

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

3rd group

38- the charge on a p type semi conductor is:

 neutral

39- a photo diode 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:

photo electric effect

42- the frequncey 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 densor to rare medium:

No phase change

49- capacitance in parrallel 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 partical

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

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 = 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 = A/s

63- the process when mass converted into energy :

Inhellation of matter

64- the emmission power of black body is:

Heighest 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 densor to rare medium it phase different will be:

No phase change

68- semi conducter 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 conducter is called:

Doping

71- P type material contain:

Holes

72- holes are partical that:

Vaccancy of electron

73- the largest e/m ratio is of :

Electron

74- the obsorption power of black body radiation is :

Remain same or constant

75- doner doping is in:

N type material

76- accepter doping is in:

P type material

77- when a paratroper jump from plain . His weight before opening parashoot is :

Double

78- weight of man on going up:

Decrease

79- 1 radian is equal to :

$360° / 2 pi = 57.3°$

80- dimension of viscosity:

$[M° L-1 T-1]$

81- dimension of acceleration :

$[M° L° T-2]$

82- dimension of power:

$[M° L2T-3]$

83- unit of power:

$Js-1= kg m2s-3$

84- direction of current and potential difference :

In Phase

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

86- cross product of 4i, 6j :

87- if £t = 0 and £F = 0 then is it equillibrium :

Yes it is equillibrium

88- mechanical wave required :

Medium

89- example of tranverse wave :

Light wave (mechanical wave)

90- what is standing wave:

Stationery wave

91- photo electric effect occur in :

Ultra violet light

92- centripetal force F= ?

F = mv2/ r

93- direction of centripital force:

Toword the center of circle

94- when a body move with speed of light it 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- germinium and silicon has valancy of:

4 valence

98- when impuroty added to germinium from 5th group the it is called :

Pentavalent (N type)

99- 2 capacitor are joind parrallel 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- primery V= 220. If number of turn increase in secondry coil then what will be resistance :

Same

104- heighest e/m ratio is :

Electron

105- dimension of self induction :

$[M° L2T-2A-2]$

106- 1 ev = ?

1.602 x 10-19 j

107- megnetic lines are called :

Line of force

108- columb force F = ?

F = k q1q2/ r2

109- alpha partical are :

Helium nuclei

110- absolute zero in fahrenhight scale:

459.67

111- unit of megnetic flux:

Weber Nm/A

112- spectrum of black body:

Continous spectrum

113- second ionization of mercury:

X+   X2+ + e

114- device which just run AC voltage

Transfermer, capacitor, inductor and resister etc

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

No motion but produce torque

116- unit of megnetic flux dencity:

Tesla T = wb/m2

117- equation of continuty:

A1V1= A2V2

118- partical 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:
Wavelengrh = decrease, V= constant and f= increase

121- when observer moving then:
Wavelength= constant, v= increase, f = increase

122- mass convert to energy is:
Inhellation of matter

123- energy covert 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 richer in high wavelength
126- temperature inversly proportional to wavelength only in case of:
Black body radiation
127- semi conductor is:
Partialy filled Valence and conduction band
128- p type material :
Holes (trivalent)
129- N type material:
Electron (pentavalent)
130- direction of centripetal force os toward:
Center of circle and remain constant
131- 0°K =?
273.16 C°
132- formula for kelvin K:
K = C° + 273
133- formula for fahrenhight F:
F = 9/5 (C° + 32)
134- formula for centigrade C:
C° = 5/9 (F - 32)

...... best of luck
Admin#
[10/08 4:20 pm] +92 313 2794131: Jummat-UL-mubarak

Shaheen Forces Academy, Pakistan