**SENIOR PHYSICS QUIZ**

01] What do we call the maximum and constant speed with which the object falling freely in air attains?

Answer: Terminal velocity

02] What type of motion does an object describe when it is acted upon by gravity only?

Answer: Projectile motion.

03] What physical quantity is found by dividing the different in velocities by the time taken?

Answer: Acceleration. {One attempt only}

04] A boy jumping from a moving truck does not land the ground right at the point of jumping but would tend to follow the truck and land somewhere front. What name is given to this property of matter?

Answer: Inertia.

05] Which principle states that for the system of interacting objects, the total momentum remains constant provided no external resultant force acts on the system?

Answer: Principle of conservation of momentum.

06] State Newton’s third law of motion.

Answer: To every action there is an equal but opposite reaction force

07] Which law is sometimes referred to as the law of inertia?

Answer: Newton’s first law of motion.

08] Why is the efficiency of any given machine never equal to 100%?

Answer: part of energy input is used to overcome friction force.

09] Which law states that heat can never be converted completely into other forms, even though other forms of energy can be converted completely to heat energy?

Answer: Second law of thermodynamics.

10] In dealing with temperature scales, what do the letters; IPTS stand for?

Answer: International Practical Temperature Scale.

11]

70] What name is given to an electronic device whose resistance reduces with light intensity?

**Answer: Photo cell or light Dependant resistor.**

71] The device in the radio which gives light depending on the sound impulse is referred to as

**Answer: Light Emitting Diode (L.E.D)**

72] What do we call the capacity to store change?

**Answer: capacitance**

73] What is the formula for capacitance?

**Answer: capacitance = Change = C**

**Voltage V**

74] What is the net negative charge of an electron?

**Answer: 1.6 x 10-19 coulombs**

75] In a primary cell, the electrolyte offers resistance to the flow of charge thin resistance is called (one attempt)

**Answer: Internal resistance**

76] A person decides to run a 12 V 48w lamp from a 120V dc supply. Find the value of the resistor needed

**Answer: 2752**

77] A 6c battery of internal resistance 25z is connected to an 83z resistor R. what is the p.d across R?

**Answer: 4V**

78] What name is given to cells that can be recharged when they run down (one attempt)

**Answer: Secondary cells**

79] A wav has a speed of 8omls. What is it’s frequency if it’s wave length is 4m.

**Answer: 20Hz**

80] Astronauts are in a space – shape orbiting the moon. They set an explosion on the surface of the moon. Why can’t they hear the explosion?

**Answer: sound can not travel in vacuum**

81] Define Hertz

**Answer: The unit of frequency equal to one cycle (event) per second**

82] What is the other name for lenses

**Answer: optical masses**

83] A certain electromagnetic wave effects a photographic film, stimulates the retina in the in the eye and causes photosynthesis in plants. What is the name of the wave.

**Answer: visible light**

84] Name the wave which passes through fog and low clouds must easily

**Answer: Radio waves**

85] A guitar string is made to vibrate. What would make the pitch of the note rise?

**Answer: increase in the frequency of vibration.**

86] The focal length of a thin converging lens is 10cm. What is the maximum distance from the lens that the object can be placed so that the lens acts as a magnifying glass.

**Answer: 10cm (0.1m)**

87] What do we call the extension per unit length of a substance?

**Answer: strain**

88] What is the S.I unit of young modulus?

**Answer: Pascals or Newtons per square meter**

89] Which scientist discovered electromagnetic induction in 1831?

**Answer: Michael Faraday**

90] Who was the first scientist to develop the idea of mutual inductance?

**Answer: Joseph Henry**

91] What is the other name for inductors?

**Answer: Chokes**

92] What we call insulating materials which increase the capacity of the capacitor to store electric charge?

**Answer: Dielectrics**

93] Why are communication satelites’ Orbits with a time period of 24hours referred to as synchronous orbits?

**Answer: They move round (orbit) at the same rate as the Earth**

94] Which principle states that an object in a fluid experiences an upthrust from the fluid equal to the weight of fluid displaced?

**Answer: Archimedes’ principle**

95] The difference between the mass of the separated nucleons and the combined mass of the nucleus is called:

**Answer: Mass defect**

96] What do we call the amount of energy equal to the work done on an electron moved through a potential difference of 1 Volt?

**Answer: Electron – Volt**

97] Which law states that the net electromotive force round a circuit loop is equal to the sum of the potential differences round the loop?

**Answer: Kirchhoff’s second law**

98] How much energy measured in joules is 2 kilo Watt hour?

**Answer: 7,200,000joules or 7.2 x106 joules**

99] A mirror is tittled at an angle of 300 to the bench. A ray of light is directed so that it his the mirror at an angle of 200 to the surface of the mirror. What is the angle of reflection?

**Answer: 700**

100] the density of a stone of 30,000 kg is 3kg/m3. Given a measuring Cylinder and a beam balance, what is the density of a crack of stone obtained from the same big stone.

Answer: 3kg/m3

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