**JUNIOR PHYSICS QUIZ**

70] In a television broadcasting the picture is changed into an electrical signal called …

 **~~Answer~~**: video signal

71] A rotary engine usually large, where steam or water power the blade is called …

 **~~Answer~~** : turbine

72] What is the density in kg/m3 of acid in a car battery if 200cm3 of the acid has a mass of 240g?

 **~~Answer~~**: 1200kg/m3

73] A metal link that melt from excessive current and opens circuit is called …

 **~~Answer~~**: fuse

74] A hair drier uses 1500watts of power, if it is connected to a source of 120V, what current flows through the drier?

 **~~Answer~~**: 12.5A

75] A device that produced current by turning a coil of wire in a magnetic field is called…

 **~~Answer~~**: Generator

76] What name is given to electric current produced by falling water?

 **~~Answer~~**: hydroelectricity

77] An object has a mass of 20g. calculate it’s density in kg/m3 if it occupies a space of 40m3.

 **~~Answer~~**: 0.0005kg/m3

78] Calculate the acceleration of an object which moves from rest reaching a velocity of 12m/s in 3seconds.

 **~~Answer~~**: 4m/s2

79] Which law states that mass does not change regardless of where an object is placed?

 **~~Answer~~**: the law of conservation

80] Determine the weight of a 3kg mass on the moon where acceleration due to gravity is about 1.6m/s2

 **~~Answer~~**: 4.8N

81] the density of a 50 g mass is 2.5g/cm3. What volume does it occupy

 **~~Answer~~**: 20 cm3 or 0.00002 m3 or 2.0 x 10 -5

82] Two bulbs each of resistance 2Ω and 1 Ω respectively are connected in series. The total voltage across the bulbs is 7.2 V. Calculate the current passing through the bulbs.

 **~~Answer~~**: 2.4 A

83] Which physical quantity describes the rate of change of displacement with time?

 **~~Answer~~**: Velocity

84] Calculate the acceleration of a car which change speed from 3m/s to 16m/s in 4 seconds.

 **~~Answer~~**: 3.25 m/s2

85] State why an object moving with a constant velocity has zero acceleration

 **~~Answer~~**: it’s change in velocity is zero

86] What do you call the reluctance by a body to change its state of motion?

 **~~Answer~~**: Inertia

87] Change an hour into seconds

 **~~Answer~~**: 3, 600 seconds

88] Determine the mass of an object accelerating at 2.5 m/s2 as a result of a 2000N force being applied on it. Assume an object is on a frictionless surface.

 **~~Answer~~**: 800 Kg.

89] What makes the filament in a light bulb red hot when it is working?

 **~~Answer~~**: Resistance.

90] A bimetallic strip which was straight changed the shape after being heated. Which metal expand faster between that outside the curve and one inside the curve. ( One attempt)

 **~~Answer~~**: One outside the curve.

91] When a light bulb connected to a battery is working, there are some changes of energy from one form to another? Give the order of change using terms heat energy, chemical energy, light energy, electric energy (one attempt)

 **~~Answer~~**: Chemical **to** electric **to**  heat **to** light

92] What do we call a device in an electrical appliance which changes the voltage?

 **~~Answer~~**: Transformer.

93] State if resistance will increase, decrease or remain the same if the diameter in which current is flowing is decreased by half.

 **~~Answer~~**: increase

95] A bicycle was moving at a speed of 12km/h. what was it’s speed in m/s?

 **~~Answer~~**: 3.3m/s

96] change $1\frac{1}{2} $days into seconds.

 **~~Answer~~**: 86400 seconds

97] Between the two, sound and light which one travels fastest?

 **~~Answer~~**: light

98] Two balls one painted black and the other one painted silver were heated to the level that they had the equal temperature. After heating which one between the two acquired a lower temperature faster?

 **~~Answer~~**: black ball

99] Between a mercury-in-glass and alcohol-in-glass thermometer which one is suitable to measure the temperature of above 100 0C.? (one attempt)

 **~~Answer~~**: mercury-in-glass thermometer

100] State if a ray of light will move towards or away from the normal if light travels from a block of glass to air.

 **~~Answer~~**: away

101] What do we call a property where by two radio station a heard on the same meter band?

 **~~Answer~~**: interference

102] ………………………… is a term given when for example a child shout in an empty building and repetition of that sound is heard after few seconds.

 **~~Answer~~**: sound echo

**END OF JUNIOR PHYSICS QUIZ**