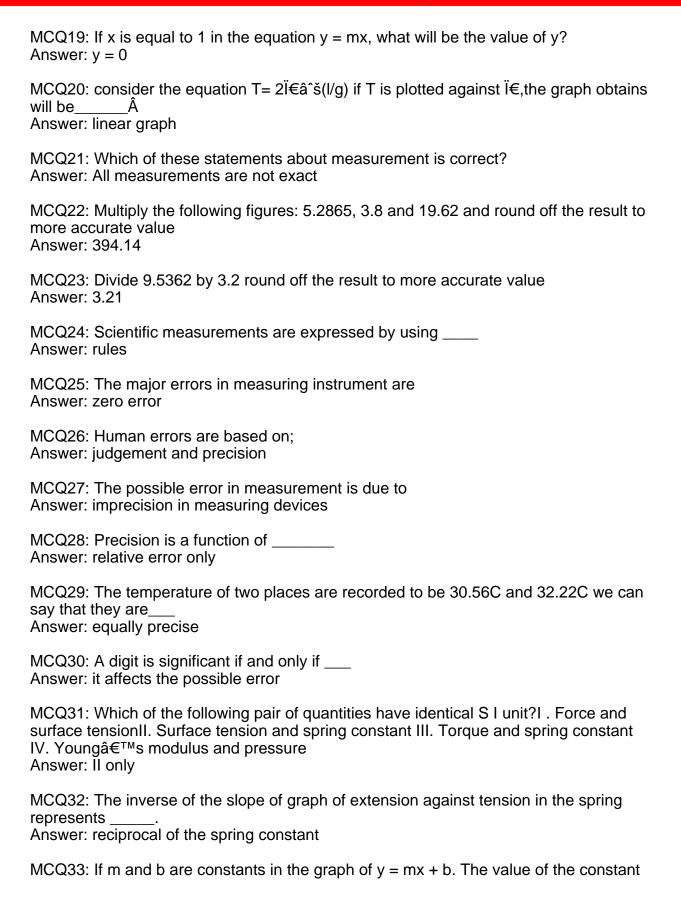


FBQ27: A mass (m) is hung at the end of a spiral spring of force constant of 200N/m. If the spring oscillates with a period of 0.45 s when set in motion, the value of its mass is Answer: \*1kg\* FBQ28: can be defined as the ratio of the mass of water to the mass of an equal volume of water. Answer: \*Relative density\* FBQ29: Relative density bottle is also called \_\_\_\_\_ gravity bottle. Answer: \*specific\* FBQ30: If two values have equal unit of measurement, they are therefore said to be Equally Answer: \*precise\* FBQ31: Glass is an example of \_\_\_\_ material Answer: \*Brittle\* FBQ32: The relationship between any two physical quantities can be determined through the use of \_\_\_\_. Answer: \*graph\* FBQ33: Whose law is this †the force on an elastic material is directly proportional to the extension produced provided that the elastic limit is not exceeded' Answer: \*Hooke\* FBQ34: If the graph of force F is plotted against the extension e, we shall obtain a \_\_\_\_ graph showing that Hooke's law is obeyed. Answer: \*linear\* FBQ35: A mass of 40kg hung on an elastic spring of length 37.2cm extends to 42.0cm. The force constant of the spring take g as 10ms¯Â² is \_\_\_\_. Answer: \*83.33 NmÂ⁻¹\* Multiple Choice Questions (MCQs): MCQ1: Which of the following measurement done with meter rule is more precise? Answer: 17.9 cm MCQ2: Relative error is Answer: the difference between possible error and the total measurement MCQ3: The two types of variables that can be measured are \_\_\_\_. Answer: X and Y variables MCQ4: If two values have equal unit of measurement, they are therefore said to be Answer: equally precise

MCQ5: The value of acceleration due to gravity depends on one of these: Answer: velocity MCQ6: The period of the body performing simple harmonic motion is 2s. If the amplitude of the motion is 3.5 cm, calculate the maximum speed (Ï€=22/7). Answer: 20.4 cm/s MCQ7: Which of the following is the best equation of a non-linear graph? Answer: y=ax+bx MCQ8: Â If the graph produced is a straight line, then the relationship is described Answer: Linear MCQ9: Graphs showing how two physical measurements are related can be represented in which form? Answer: Variable MCQ10: If y=mx + b, and y is plotted against x; what type of graph will be obtained? Answer: horizontal graph MCQ11: Relative error can be defined as Answer: product of the possible error to the total measurement MCQ12: A measurement possessing greater number of significant digits has \_\_\_\_\_ Answer: less relative accuracy MCQ13: The time taken for a given event is 7.4s and the possible error is 0.05cm, what is the relative error? Answer: 0.003 MCQ14: Consider the following pair of measurements 40.0cm or 8.0cm. Which one is more accurate? Answer: 8.0cm MCQ15: the following physical quantities are fundament quantities except Answer: Density MCQ16: Which of the following is correct about types of graph? Answer: linear graph MCQ17: Multiplication and division rule states that the product or quotient of two measurements should be rounded off Answer: to contain less significant digits as the measurement having fewer numbers of significant digits MCQ18: In measurement report, the non-zero digits are\_\_\_\_ Answer: not significance



b represents Answer: intercept on the graph
MCQ34: The following are sources of error in a measuring instrument except Answer: they arise due to changes in environment
MCQ35: One of the following is not a systematic error.

Answer: errors in judgement of an observer