Q81. The error between the mean of finite data set and mean of infinite data set is known as …….

True error of the mean
Standard error of the mean
Finite error
Infinite error
Ans. 2

Q82. In a measurement system,

A single measurement components may have both random errors and systematic errors
A measurement system consists of several components with each component having separate errors
Both the statement (1) & (2) are true
Neither statement (1) nor statement (2) is true
Ans. 3

Q83. If the degree of damping of an instrument should be adjusted to a value which is sufficient to enable the pointer to rise quickly to its deflected position without overshooting is called as ……

Overdamped
Dead beat
Underdamped
None of these
Ans. 2

Q84. Due to overdamping, the instrument will become …….

Slow
Lethargic
Fast
Both (1) and (2)
Ans. 4

Q85. While measuring resistance by the voltmeter – ammeter method, the maximum possible percentage error in the voltmeter and ammeter are ± 1.8% and ± 1.2% respectively. Then the maximum possible percentage error in the value of resistance will be ……..

± 3%
± 4%
± 4.2%
± 4.8%
Ans. 1

Q86. If the resistance in a circuit is given by 80 Ω ± 0.2% and the current flowing through it is 5A ± 0.1%, then the uncertainty in the power will be …….

± 0.2 %
± 0.4 %
± 0.6 %
± 0.8 %
Ans. 2

Q87. When a 100 V moving iron voltmeter is of accuracy class 1 – 0 is used in a circuit, it reads 50 V. Then the maximum possible percentage error in the reading is ……

1 %
2 %
2.5 %
3 %
Ans. 2

Q88. In liquid crystal displays, the liquid crystal exhibits properties of ……

Liquid
Solids
Gases
Both (1) and (2)
Ans. 4

Q89. In light emitting diode, the available light emitting region is ……..

Less than 2.5 mm
From 2.5 to 25 mm
Greater than 25 mm
Greater than 50 mm
Ans. 2

Q90. Resolver works on the principal of mutual inductance variation. It is mainly used for the measurement of ……

Linear displacement
Non – linear displacement
Rotary motion
All of these
Ans. 3