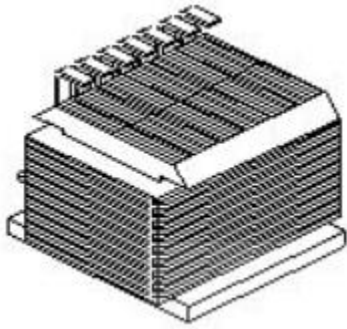


Measuring instruments, Testing and Calibration

1). What is the type of frequency meter as shown in the figure?



- (A) Weston type
- (B) Ratio meter type
- (C) Electro dynamic type
- (D) Mechanical resonance type

Correct Answer : D

2). How the creeping error is controlled in energy meter?

- (A) By reducing rated voltage
- (B) By increasing the inductive load
- (C) By removing the brake magnet
- (D) By drilling two holes diametrically opposite on disc

Correct Answer : D

3). Which electrical effect that the single phase analog energy meter works?

- (A) Heating effect
- (B) Induction effect
- (C) Chemical effect
- (D) Electrostatic effect

Correct Answer : B

4). Which type of instrument is used with air friction damping?

- (A) Moving coil instrument
- (B) Moving iron instrument
- (C) Induction type instrument
- (D) Dynamo meter type instrument

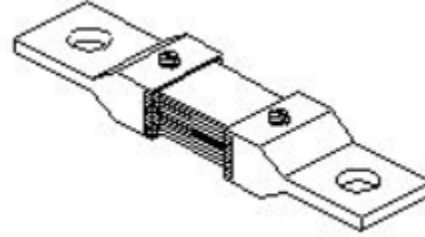
Correct Answer : B

5). Which quantity is measured by an electrodynamic type instrument?

- (A) Power
- (B) Speed
- (C) Capacitance
- (D) Resistance

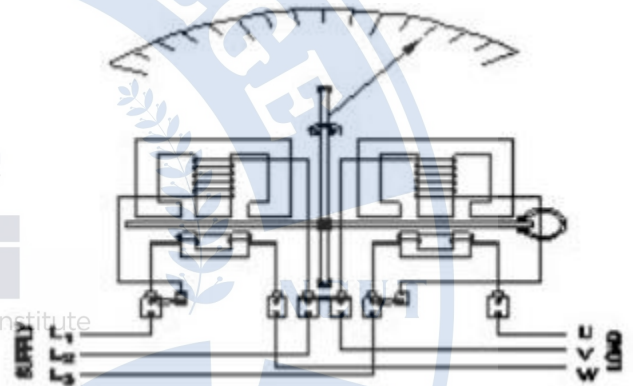
Correct Answer : A

6). What is the name of the shunt resistance material as shown in the figure?



- (A) Copper
 - (B) Eureka
 - (C) Nichrome
 - (D) Manganin
- Correct Answer : D

7). What is the type of wattmeter as shown in the figure?



- (A) Three element 4 wire wattmeter
 - (B) Two element 3 phase wattmeter
 - (C) Three element 3 phase wattmeter
 - (D) Three phase two element with C.T & P.T
- Correct Answer : B

8). Which material is used to make the control spring in measuring instruments?

- (A) Steel
- (B) Silver
- (C) Tinned copper
- (D) Phosphor bronze

Correct Answer : D

9). Which type of meter is used to test the polarity of battery?

- (A) Moving iron ammeter
- (B) Moving coil voltmeter
- (C) Moving iron voltmeter

(D) Dynamo meter type wattmeter

Correct Answer : B

10). Which factor is affected due to the loading effect on measuring instruments?

- (A) High influence error
- (B) High sensitivity
- (C) Low sensitivity
- (D) Low influence error

Correct Answer : C

11). What is the type of the instrument as shown in the figure?



- (A) Absolute instrument
- (B) Indicating instrument
- (C) Recording instrument
- (D) Integrating instrument

Correct Answer : A

12). Which power of AC supply is measured by the wattmeter?

- (A) Instantaneous power
- (B) True power
- (C) Apparent power
- (D) Reactive power

Correct Answer : B

13). What is the reason for the moving coil meter having uniform scale?

- (A) Deflecting torque is directly proportional to the current
- (B) Deflecting torque is inversely proportional to the current
- (C) Deflecting torque is inversely proportional to the square of the current
- (D) Deflecting torque is directly proportional to the square of the current

Correct Answer : A

14). What is the unit of sensitivity in voltmeter?

- (A) Volt / ohm
- (B) Ohm / volt
- (C) Ohm metre
- (D) Ohm / metre

Correct Answer : B

15). Why two diagonally opposite holes are provided in the aluminium disc in energy meter?

- (A) To reduce the disc weight
- (B) For power factor correction
- (C) To prevent the flux leakage
- (D) To arrest the creeping error

Correct Answer : D

16). What is the name of the scale as shown in the figure?



- (A) Linear scale
- (B) Fine scale
- (C) Extended scale
- (D) Non-linear scale

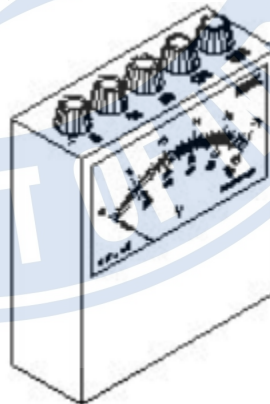
Correct Answer : D

17). Which instrument is an example of an integrating instrument?

- (A) AC voltmeter
- (B) DC voltmeter
- (C) Energy meter
- (D) Tangent galvanometer

Correct Answer : C

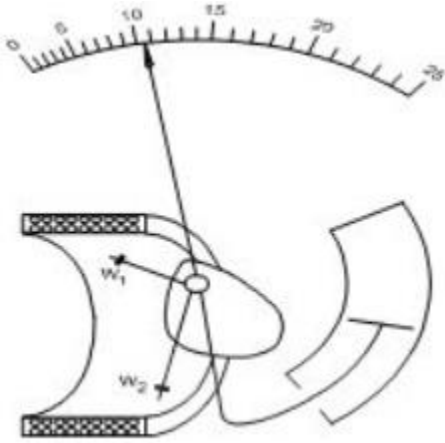
18). What is the name of meter as shown in the figure?



- (A) AC multirange ammeter
- (B) DC multirange voltmeter
- (C) AC and DC multirange ammeter
- (D) AC and DC multirange voltmeter

Correct Answer : D

19). What is the type of instrument as shown in the figure?



- (A) Attraction type moving iron
- (B) Repulsion type moving iron
- (C) Permanent magnet moving coil
- (D) Dynamo meter type moving coil Correct

Answer : A User

Answer : A Suggestion 20). What is the name of the error if the energy meter disc rotating continuously on no load?

- (A) Speed error
- (B) Phase error
- (C) Friction error
- (D) Creeping error

Correct Answer : D

21). Which force is required to move the pointer from the zero position in an indicating instrument?

- (A) Controlling force
- (B) Deflecting force
- (C) Air friction damping
- (D) Eddy current damping

Correct Answer : B

22). Which type of energy meter works with neutral connection?

- (A) Three phase two element
- (B) Three phase three element
- (C) Single phase single element
- (D) Three phase two element with CT & PT

Correct Answer : C

23). Which electrical quantity is unable to measure directly by the multimeter?

- (A) AC voltage
- (B) Resistance
- (C) Power
- (D) DC voltage

Correct Answer : C

24). Why the scale of the moving iron instrument is having non-uniform scale?

- (A) Deflecting force is directly proportional to the Current
- (B) Deflecting force is inversely proportional to the Current
- (C) Deflection of force is directly proportional to the square of the Current
- (D) Deflection force is inversely proportional to the square of the Current

Correct Answer : C

25). Which is an absolute instrument?

- (A) Ammeter
- (B) Volt meter
- (C) Energy meter
- (D) Tangent galvanometer Correct

Answer : D