

Earthing and Illumination system

1). Why the A.C is used in electrodes of earth resistance tester to measure the earth resistance?

- (A) Regulate the current
- (B) Increase the voltage drop
- (C) Decrease the voltage drop
- (D) Avoid electrolytic emf interference

Correct Answer : D

2). What is the main advantage of coiled coil lamp?

- (A) High melting point
- (B) Higher light output
- (C) Low operating voltage
- (D) Low power consumption

Correct Answer : B

3). What is the purpose of ignitor in high pressure sodium vapour lamp circuit?

- (A) Decreases the starting current
- (B) Increases the running voltage
- (C) Increases the running current
- (D) Generates high voltage pulse at starting

Correct Answer : D

4). Which method is used to reduce the value of earth resistance?

- (A) By reducing the size of earth electrode
- (B) By decreasing the depth of earth electrodes
- (C) By pouring water in the earth pit at repeated intervals
- (D) By connecting a number of earth electrodes in series

Correct Answer : C

5). What happens if the starter of a glowing tube light is removed?

- (A) Switch off immediately
- (B) Glow continuously
- (C) Gives low light output
- (D) Glow intermittently

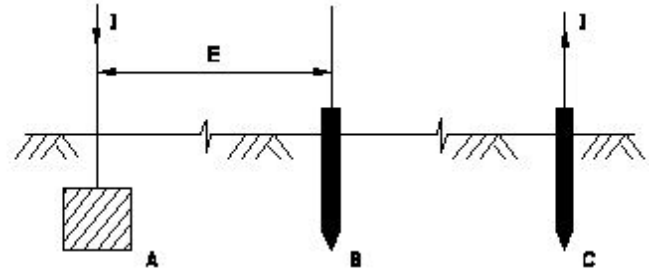
Correct Answer : B

6). How the rate of evaporation in a vacuum bulb is reduced?

- (A) Filling inert gas
- (B) Producing arc in bulb
- (C) Reducing filament resistance
- (D) Increasing filament resistance

Correct Answer : A

7). Which method of earth resistance measurement is illustrated as shown in the figure?



- (A) Fall of current
- (B) Fall of potential
- (C) Current dividing
- (D) Rise of current

Correct Answer : B

8). Why the pointer is anywhere on the scale as the megger is kept idle?

- (A) It is not having controlling Torque
- (B) Provided with air friction damping
- (C) The deflecting torque is directly proportional to the current
- (D) The deflecting torque is directly proportional to the square of the current

Correct Answer : A

9). What is the term refers the luminous flux given by light source per unit solid angle?

- (A) Lumen
- (B) Luminous flux
- (C) Illuminance
- (D) Luminous intensity

Correct Answer : D

10). Which type of light fitting has glare effect?

- (A) Semi direct type
- (B) Semi indirect type
- (C) Direct lighting type
- (D) Indirect lighting type

Correct Answer : C

11). What is the function of leak transformer in high pressure sodium vapour lamp circuit?

- (A) Reduce the starting current
- (B) Increase the working current
- (C) Increase the working voltage
- (D) Ignite the high voltage initially

Correct Answer : D

12). What is the purpose of choke used in fluorescent lamp circuit?

- (A) Stepdown the voltage at the starting and increase the current
- (B) Stepup the voltage at the starting and increase the frequency
- (C) Stepup the voltage at the starting and regulate the current
- (D) Stepdown the voltage at the starting and regulate the current Correct

Answer : C

13). Which term refers that the luminous flux reaching a plane surface perpendicularly per unit area?

- (A) Lumen
- (B) Illuminance
- (C) Luminous flux
- (D) Luminous intensity

Correct Answer : B

14). Which type of lighting system is used for flood and industrial lighting?

- (A) Direct lighting
- (B) Indirect lighting
- (C) Semi-direct lighting
- (D) Semi-indirect lighting

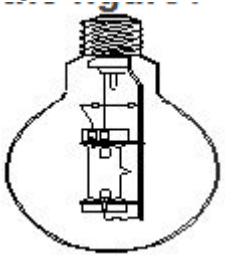
Correct Answer : A

15). What is the S.I unit of luminous intensity?

- (A) Lux
- (B) Lumen
- (C) Candela
- (D) Steradian

Correct Answer : C

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



- (A) MAT type MV lamp
- (B) HP metal halide lamp
- (C) MB type HPMV lamp
- (D) MA type HPMV lamp

Correct Answer : D

17). Which method is used to reduce the earth resistance value of a existing earth electrode?

- (A) Increasing the length of electrode
- (B) Keeping the earth pits in wet condition always
- (C) Adding more sand and charcoal in earth pits
- (D) Increasing the diameter of earth electrode

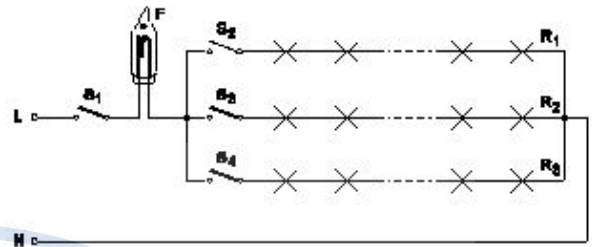
Correct Answer : B

18). What is the working temperature of tungsten filament vacuum lamp?

- (A) 1500°C
- (B) 1800°C
- (C) 2000°C
- (D) 2300°C

Correct Answer : D

19). What is the current carrying capacity of flasher, if the current is 100 mA in each row?



- (A) 50 mA
- (B) 100 mA
- (C) 200 mA
- (D) 300 mA

Correct Answer : D

20). What is the expansion of ECC?

- (A) Earth Conductor Continuity
- (B) Earth Continuity Conductor
- (C) Earth Carrying Conductor
- (D) Earth Continuity Cable Correct

Answer : B

21). Why the system earthing is different from the equipment earthing?

- (A) It protects human only
- (B) It protects equipment only
- (C) It is associated with current carrying conductors
- (D) It is associated with non-current carrying conductors

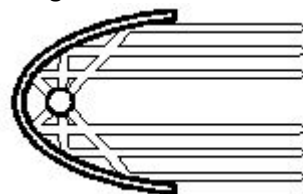
Correct Answer : C

22). What is the unit of luminous flux?

- (A) Lux
- (B) Lumen
- (C) Candela
- (D) Lumen/m²

Correct Answer : B

23). What is the name of the reflector as shown in the figure?



- (A) Mirror type
- (B) Soft light type
- (C) Parabolic type
- (D) Dispersive type

Correct Answer : C

24). Which device provides the ignition voltage and act as choke in a HPSV lamp?

- (A) Arc tube
- (B) Sodium vapour
- (C) Leak transformer
- (D) High pressure aluminium oxide

Correct Answer : C

25). Which is proportional for the deflection of ohmmeter needle in earth resistance tester?

- (A) Current in current coil
- (B) Current in potential coil
- (C) Speed of the handle rotation
- (D) Ratio of the current in two coils

Correct Answer : D

