

Power Generation, Transmission and Distribution

1). Why steel is reinforced in ACSR conductors used for overhead lines?

- (A) To minimize the line sag
- (B) To increase the line voltage drop
- (C) Type of Supply voltage and load
- (D) To decrease the current carrying capacity

Correct Answer : A

2). What is the voltage ratio in A.C distribution line adopted for domestic consumers?

- (A) 415 V / 240 V
- (B) 240 V / 110 V
- (C) 415 V / 110 V
- (D) 11 KV / 415 V

3). What is the reason for effective utilisation of the conductor cross-sectional area in the transmission of DC as compared to AC?

- (A) No heat loss
- (B) No skin effect
- (C) No power loss
- (D) No corona loss

Correct Answer: B

4). What is the cause for phase to ground fault on the transmission line?

- (A) Low voltage
- (B) Insulator failure
- (C) Human Error
- (D) Fuse failure

Correct Answer : B

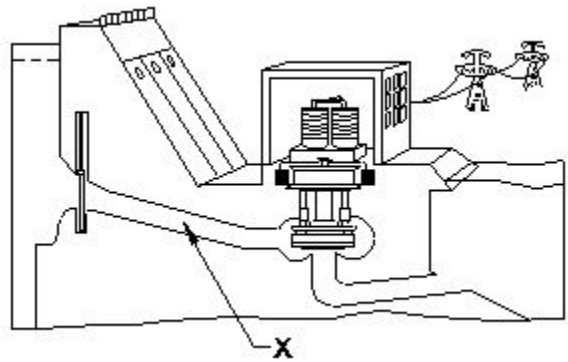
5). What is the major disadvantage of wind power generation?

- (A) Pollution effect is more
- (B) Requires high technology
- (C) Plant installation more complicated
- (D) Wind power is not constant and steady

Correct Answer : D

6). What is the name of the part of hydro power plant marked as 'X' as shown in the figure?

- (A) Penstock
- (B) Turbine

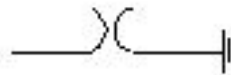


- (C) Intake
 - (D) Control gate
- Correct Answer : A

7). Which type of line insulator is used at the dead ends of the H.T overhead lines?

- (A) Pin insulator
 - (B) Disc insulator
 - (C) Stay insulator
 - (D) Post insulator
- Correct Answer : B

8). What is the name of the symbol as shown in the figure?



- (A) Coupling Capacitor (CC)
 - (B) Circuit Breaker (CB)
 - (C) Lightning Arrester (LA)
 - (D) Earth switch (ES)
- Correct Answer : C

9). What is the advantage of AC power transmission?

- (A) Corona loss negligible
- (B) Stress on transmission lines is minimum
- (C) Low voltage drop in transmission lines
- (D) Voltages can be stepped up and stepped down easily

Correct Answer : D

10). Which is the permissible load for lighting subcircuit in domestic wiring as per IE rules?

- (A) 800 W
- (B) 1200 W
- (C) 2400 W
- (D) 3000 W

Correct Answer : A

11). Which material is used in solar cell?

- (A) Silicon
- (B) Copper
- (C) Antimony
- (D) Phosphorus

Correct Answer : A

12). Which fuel is available in plenty in India for power generation?

- (A) Coal
- (B) Diesel
- (C) Gas oil
- (D) Gasoline

Correct Answer : A

13). Which electric lines connect the substation to distributors in distribution system?

- (A) Feeders
- (B) Distributors
- (C) Service lines
- (D) Service mains

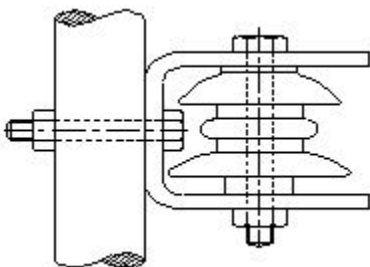
Correct Answer : A

14). What is the name of conductor used on overhead lines?

- (A) ACSR
- (B) Aluminium
- (C) Galvanised iron
- (D) Hard drawn copper

Correct Answer: A

15). What is the name of the insulator used in O.H lines as shown in the figure?



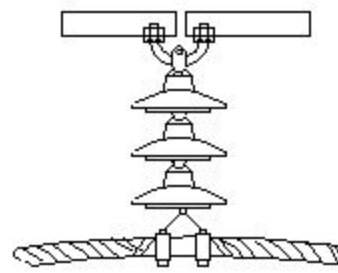
- (A) Pin insulator
- (B) Post insulator
- (C) Strain insulator
- (D) Shackle insulator

16). What is the name of the substation that all equipment of substation is installed within the station building?

- (A) Outdoor substation
- (B) Indoor substation
- (C) Plinth mounted substation
- (D) Pole mounted substation

Correct Answer : B

17). What is the name of line insulator as shown in the figure?



- (A) Pin type insulator
- (B) Disc type insulator
- (C) Shackle type insulator
- (D) Suspension type insulator

Correct Answer : D

18). Which type of line insulator is used for terminating on corner post?

- (A) Pin insulator
- (B) Strain insulator
- (C) Shackle insulator
- (D) Suspension insulator

Correct Answer : C

19). What is ACSR stands for?

- (A) All Conductors Steel Reinforced
- (B) Aluminium Core Steel Reinforced
- (C) Aluminium Covered Steel Reinforced
- (D) Aluminium Conductor Steel Reinforced

Correct Answer : D

20). What is the name of the power, generated from the coal?

- (A) Solar power
- (B) Hydro power
- (C) Thermal power
- (D) Tidal power

Correct Answer : C

21). What is the name of the insulator as shown in the figure?



- (A) Stay insulator
- (B) Shackle insulator
- (C) Suspension insulator
- (D) Single shed pin insulator

Correct Answer : D

22). What is the advantage of overhead lines compared to underground cable?

- (A) Public safety is more
- (B) Faults can be located easily
- (C) No interference with the communication lines
- (D) Not liable to the hazards from lightning discharges

Correct Answer : B

23). What is the name of the power, generated from the water resources?

- (A) Thermal power
- (B) Wind power
- (C) Tidal power
- (D) Hydro power

Correct Answer : D

24). What is the insulation resistance between any two conductors in a medium voltage domestic installation as per IE rules?

- (A) Infinity
- (B) More than one mega ohm
- (C) Less than one Mega ohms

(D) Zero

Correct Answer : B

25). What is the main purpose of cross arm used in electric poles?

- (A) Supporting the line conductors
- (B) Holding the insulators on overhead line
- (C) Avoids the short circuit between conductors
- (D) Reduces the conductor sag between supports

Correct Answer : B

