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Electrical Cables MCQ Test

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Below is the **Electrical Cables MCQ** test that checks your basic knowledge of Electrical Cables. This **Electrical Cables MCQ** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Electrical Cables Quiz** Button.

Q1. The electrostatic stress in underground cables is

- A. Same at the conductor and the sheath
- B. Zero at the conductor as well as on the sheath
- **C. Maximum at the conductor and minimum at the sheath**
- D. Minimum at the conductor and maximum at the sheath

Q2. What is the main purpose of an electric cable?

- A. transporting mechanical energy from one point to another
- **B. transporting electrical energy from one point to another**
- C. transporting hydrolic energy from one point to another
- D. None of the above

Q3. What does PVC stands for?

- **A. Polyvinyl chloride**
- B. Post varnish conductor
- C. Pressed and varnished cloth
- D. Positive voltage conductor

Q4. In capacitance grading of cables we use ____ dielectric.

- A. Homogeneous
- **B. Composite**

- C. Heterogeneous
- D. None of the above

Q5. Grading of cables:

- **A. Reduces insulation cost and increases current rating**
- B. Reduces insulation cost but decreases current rating
- C. Increases both
- D. Either A or B

Q6. Capacitance grading of cable implies:

- **A. Use of dielectrics of different permeabilities**
- B. Grading according to capacitance of cables per km length
- C. Cables using single dielectric in different concentrations
- D. Capacitance required to be introduced at different lengths to counter the effect of inductance

Q7. In a cable the maximum stress under operating conditions is at ____.

- A. Insulation layer
- **B. Conductor surface**
- C. Armour
- D. Sheath

Q8. In case of three core flexible cable the color of the neutral is ____.

- **A. blue**
- B. black
- C. red
- D. None of the above

Q9. In a cable the voltage stress is maximum at:

- A. Sheath
- **B. Core of the conductor**
- C. Surface of the conductor
- D. Insulator

Q10. What is the main advantage of cables over overhead transmission lines?

- A. Easy maintenance
- B. used in high voltage circuits
- **C. used in congested areas**
- D. Low cost

Q11. What is the advantage of oil filled cables?

- A. More perfect impregnation
- B. Smaller overall size
- C. No ionization, oxidation and formation of voids
- **D. All of the above**

Q12. Underground cables are laid at sufficient depth:

- A. To minimize temperature stresses
- B. To avoid being unearthed easily due to removal of soil
- **C. To minimize the effect of shocks and vibrations due to gassing vehicles, etc.**
- D. For all of the above reasons

Q13. Sulphur hexafluoride cable is insulated by___.

- **A. compressed gas**
- B. PVC
- C. High-pressure oil
- D. Impregnated paper

Q14. Is Polyethylene has very poor dielectric and ageing properties?

- A. Yes
- **B. No**

Q15. Conduit pipes are normally used to protect unsheathed cables.

- **A. True**
- B. False

Q16. Empire tape is:

- **A. Varnished cambric**
- B. Vulcanized rubber
- C. Impregnated paper
- D. None of the above

Q17. The insulating material for cables should:

- A. Be acid proof
- B. Be non-inflammable
- C. Be non-hygroscopic
- **D. Have all above properties**

Q18. If the length of a cable is doubled, its capacitance ____.

- A. becomes one-fourth
- B. remains unchanged
- **C. becomes double**
- D. becomes one-half

Q19. Which one of the following is not an example of electric cables?

- A. Flexible cables
- B. Filled cable
- C. Coaxial cable
- **D. Diode**

Q20. Which of the following is not the benefit of electrical cable?

- A. lower transmission losses
- B. absorb emergency power loads
- C. lower maintenance costs
- **D. additional cost for the cable**

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