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High Voltage Engineering MCQ Test

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Q1. Polar dielectrics are normally used for _____.

- A. high frequencies
- B. microwaves
- **C. dc and power frequencies**
- D. None of the above

Q2. What do you mean by Polar dielectrics?

- **A. The dielectric materials which have permanent electric dipoles moment 'p'.**
- B. Non-Polar Electric
- C. Polystyrene
- D. None of the above

Q3. Which one of the following is a polar dielectric ?

- A. Teflon
- B. Polyethylene
- **C. Nylon**
- D. Quartz

Q4. What is non-Polar dielectric?

- A. Polar Electric

- **B. The electric materials which don't have permanent dipole moments.**
- C. Polar dielectric
- D. None of the above

Q5. Which one of the following is a non-polar dielectric ?

- **A. Polystyrene**
- B. Phenolic plastics
- C. Plasticized cellulose acetate
- D. Castor oil

Q6. The impurity in liquid dielectric which has significant effect in reducing the breakdown strength, is ____.

- A. dust
- B. ionic impurities
- **C. moisture**
- D. dissolved gases

Q7. The relationship between the breakdown voltage V and gap d is normally given as ____.

- **A. $v = kd^n$**
- B. $V = kd$
- C. $d=kV^3$
- D. kV^2

Q8. Which one is the not a property of a good dielectric?

- A. high mechanical strength (B) (C) (D)
- B. freedom from gaseous inclusions
- **C. high dielectric loss**
- D. high resistance to thermal deterioration

Q9. What do you mean by Tesla coil?

- **A. a radio frequency oscillator**
- B. cascaded transformer
- C. coreless transformer

- D. None of the above

Q10. The ideal lightning arrester is the one which:

- A. Stops the flow of electric current above rated voltage
- **B. Conducts electric current above rated voltage**
- C. non Polar
- D. None of the above

Q11. What is the use of Lightning arresters?

- **A. It protect electrical equipment against. direct strokes of lightning**
- B. half-wave rectifier
- C. close circuit
- D. None of the above

Q12. The necessary condition for performing sphere gap test is:

- A. should be between 0.7 μ s and 0.8 μ s
- **B. The length of gap should be smaller than radius of sphere**
- C. The length of gap should be 4 times greater than radius of sphere
- D. An impulse wave of 50000 kV should be applied Wave front time

Q13. The generating voltmeter is driven by _____ which _____ energy from measuring source:

- A. Constant speed motor, absorbs
- B. Variable speed motor, doesn't absorb
- **C. Constant speed motor, doesn't absorb**
- D. Variable speed motor, absorbs

Q14. Void discharges are classified as:

- A. External partial discharges
- **B. Internal partial discharges**
- C. Anode
- D. None of these

Q15. Matched lines has no reflection.

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

Q16. Which variety of paper used for insulation purpose?

- A. blotting paper
- B. rice paper
- **C. craft paper**
- D. mill-board

Q17. Van de Graaff generators are useful for _____.

- **A. Very high voltage and low current applications**
- B. Very high voltage and high current applications
- C. High voltage pulses only
- D. Constant high voltage and current applications

Q18. For the measurement of radio interference voltages, the detector circuit is provided with a measuring device to measure:

- A. Quasi-peak value
- B. Peak value
- C. Average value
- **D. All of the above**

Q19. The sparkover voltage _____.

- A. Humidity is minimum for uniform field gaps
- B. Humidity effect decreases with the size of spheres
- C. decreases with the partial pressure of water vapour in air
- **D. Increases with humidity**

Q20. A Capacitance Voltage Transformer can be connected to a - Published on 21 Dec 15
a. b. c. d.

- A. Low impedance device
- B. Relay coil
- C. **Both A and B**
- D. High impedance device

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