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[Electromagnetic Fields MCQ](#)

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Q1. Which of the following is the example of spherical system?

- A. Charge in box
- B. Charge in dielectric
- **C. Charge in space**
- D. Uncharged system

Q2. Which of the following is the radiation pattern of a parabola antenna?

- A. Figure of directional
- B. Omnidirectional
- **C. Highly directional**
- D. None of the above

Q3. What is the main disadvantage of the two-hole directional coupler?

- **A. Narrow bandwidth**
- B. Poor directivity
- C. High standing wave ratio
- D. All of the above

Q4. The electric charge is stored in..... In a capacitor.

- A. metal plates

- **B. dielectric**
- C. Both A & B
- D. None of the above

Q5. Which material has the highest value of dielectric constant?

- A. Glass
- B. Oil
- C. Vacuum
- **D. Ceramics**

Q6. Pickout the incorrect statement?

- A. The leakage resistance of ceramic capacitors is generally high
- B. The stored energy in a capacitor increases with applied voltage
- C. A wire cable has distributed capacitance between the conductors
- **D. The stored energy in a capacitor decreases with reduction in value of capacitance**

Q7. A capacitor consists of two -

- A. insulators only
- B. conductors only
- **C. conductors separated by an insulator**
- D. insulators separated by a conductor

Q8. What is the unit of capacitance?

- A. ohm
- **B. farad**
- C. henry
- D. None of the above

Q9. Which of the following capacitors are mainly used for radio frequency tuning?

- **A. Air**
- B. Mica
- C. Paper
- D. Electrolytic

Q10. The Stoke's theorem uses operation?

- **A. Curl**
- B. Gradient
- C. Laplacian
- D. Divergence

Q11. The Green's theorem can be related to

- A. Euler's theorem
- B. Leibnitz's theorem
- **C. Stoke's theorem**
- D. None of the above

Q12. Which of the following quantity is unit of Coulomb?

- A. Force
- **B. Charge**
- C. Pressure
- D. Permittivity

Q13. The electric field will be for a test charge placed at infinity?

- A. +?
- B. -?
- **C. zero**
- D. None of the above

Q14. The Gaussian surface is -

- A. Tangential
- B. Real boundary
- **C. Imaginary surface**
- D. None of the above

Q15. Gauss law cannot be used to find

- A. Charge
- **B. Permittivity**
- C. Electric field intensity
- D. None of the above

Q16. For which of the following purpose Loop antenna is commonly used?

- A. Radar
- **B. Direction finding**
- C. Communication
- D. None of the above

Q17. Parabolic & lens antenna are commonly used in-

- A. Medium frequency
- **B. Microwave frequency**
- C. Low frequency
- D. High frequency

Q18. What is the radiation pattern of loop antenna?

- A. Circle
- B. Limacon
- C. Cardoid
- **D. Both B & C**

Q19. A capacitor stores 0.24 coulombs at 10 volts. Find the Its capacitance?

- A. 0.8 F
- B. 0.6 F
- **C. 0.024 F**
- D. None of the above

Q20. A dielectric material must be -

- **A. insulator**
- B. resistor
- C. Electric field

- **D.** None of the above

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