

1 ELECTROSTATIC FIELD IN FREE SPACE

1.1 Coulomb's Law

CONCEPTUAL QUESTION 1.1 Correct Answer: (B)

CONCEPTUAL QUESTION 1.2 Correct Answer: (C)

1.2 Electric Field Intensity Vector Due to Given Charge Distributions

CONCEPTUAL QUESTION 1.3 Correct Answer: (F)

CONCEPTUAL QUESTION 1.4 Correct Answer: (B)

CONCEPTUAL QUESTION 1.5 Correct Answer: (B)

CONCEPTUAL QUESTION 1.6 Correct Answer: (E)

CONCEPTUAL QUESTION 1.7 Correct Answer: (A)

1.3 Electric Scalar Potential

CONCEPTUAL QUESTION 1.8 Correct Answer: (A)

CONCEPTUAL QUESTION 1.9 Correct Answer: (C)

CONCEPTUAL QUESTION 1.10 Correct Answer: (E)

CONCEPTUAL QUESTION 1.11 Correct Answer: (E)

CONCEPTUAL QUESTION 1.12 Correct Answer: (D)

1.4 Differential Relationship between Field and Potential in Electrostatics, Gradient

CONCEPTUAL QUESTION 1.13 Correct Answer: (C)

CONCEPTUAL QUESTION 1.14 Correct Answer: (D)

CONCEPTUAL QUESTION 1.15 Correct Answer: (A)

CONCEPTUAL QUESTION 1.16 Correct Answer: (C)

CONCEPTUAL QUESTION 1.17 Correct Answer: (D)

1.5 Gauss' Law in Integral Form

CONCEPTUAL QUESTION 1.18 Correct Answer: (C)

CONCEPTUAL QUESTION 1.19 Correct Answer: (E)

CONCEPTUAL QUESTION 1.20 Correct Answer: (D)

CONCEPTUAL QUESTION 1.21 Correct Answer: (C)

CONCEPTUAL QUESTION 1.22 Correct Answer: (B)

CONCEPTUAL QUESTION 1.23 Correct Answer: (A)

CONCEPTUAL QUESTION 1.24 Correct Answer: (B)

1.6 Differential Form of Gauss' Law, Divergence

CONCEPTUAL QUESTION 1.25 Correct Answer: (B)

CONCEPTUAL QUESTION 1.26 Correct Answer: (A)

1.7 Conductors in the Electrostatic Field

CONCEPTUAL QUESTION 1.27 Correct Answer: (C)

CONCEPTUAL QUESTION 1.28 Correct Answer: (A)

CONCEPTUAL QUESTION 1.29 Correct Answer: (E)

1.8 Electrostatic Shielding

CONCEPTUAL QUESTION 1.30 Correct Answer: (B)

CONCEPTUAL QUESTION 1.31 Correct Answer: (B)

1.9 Charge Distribution on Metallic Bodies of Arbitrary Shapes

CONCEPTUAL QUESTION 1.32 Correct Answer: (A)

CONCEPTUAL QUESTION 1.33 Correct Answer: (C)

CONCEPTUAL QUESTION 1.34 Correct Answer: (C)

1.10 Image Theory

CONCEPTUAL QUESTION 1.35 Correct Answer: (A)

CONCEPTUAL QUESTION 1.36 Correct Answer: (B)

CONCEPTUAL QUESTION 1.37 Correct Answer: (A)

2 ELECTROSTATIC FIELD IN DIELECTRICS

2.1 Polarization of Dielectrics

CONCEPTUAL QUESTION 2.1	Correct Answer: (C)
CONCEPTUAL QUESTION 2.2	Correct Answer: (B)
CONCEPTUAL QUESTION 2.3	Correct Answer: (A)
CONCEPTUAL QUESTION 2.4	Correct Answer: (B)
CONCEPTUAL QUESTION 2.5	Correct Answer: (B)
CONCEPTUAL QUESTION 2.6	Correct Answer: (D)
CONCEPTUAL QUESTION 2.7	Correct Answer: (B)
CONCEPTUAL QUESTION 2.8	Correct Answer: (A)
CONCEPTUAL QUESTION 2.9	Correct Answer: (B)
CONCEPTUAL QUESTION 2.10	Correct Answer: (D)
CONCEPTUAL QUESTION 2.11	Correct Answer: (C)
CONCEPTUAL QUESTION 2.12	Correct Answer: (B)

2.2 Generalized Gauss' Law and Permittivity

CONCEPTUAL QUESTION 2.13	Correct Answer: (D)
CONCEPTUAL QUESTION 2.14	Correct Answer: (C)
CONCEPTUAL QUESTION 2.15	Correct Answer: (E)
CONCEPTUAL QUESTION 2.16	Correct Answer: (A)
CONCEPTUAL QUESTION 2.17	Correct Answer: (D)
CONCEPTUAL QUESTION 2.18	Correct Answer: (D)
CONCEPTUAL QUESTION 2.19	Correct Answer: (A)
CONCEPTUAL QUESTION 2.20	Correct Answer: (D)