

ELECTRIC CURRENT AND MAGNETISM BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Q1. Alternating current is converted to direct current

- a) By Transformer
 - b) By Dynamo
 - c) By Motor
 - d) By Rectifier
-

Q2. In which one of the following cases Ohm's law is not valid?

- a) Junction diode
 - b) Wire bound resistor
 - c) Potentiometer
 - d) Electric bulb
-

Q3. Graphene is frequently in news recently. What is its importance?

- It is a two-dimensional material and has good electrical conductivity.
- It is one of the thinnest but strongest materials tested so far.
- It is entirely made of silicon and has high optical transparency.
- It can be used as 'conducting electrodes' required for touch screens, LCDs and organic LEDs.

Which of the statements given above are correct?

- a) 1, 2 and 4 only
 - b) 1 and 2 only
 - c) 3 and 4 only
 - d) 1, 2, 3 and 4
-

Q4. Coulomb's law is true for

- a) nuclear distances ($= 10^{-15}$ m)
- b) charged as well as uncharged particles
- c) atomic distances ($= 10^{-11}$ m)
- d) all the distances

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Q5. Which of the following is most suitable for the core of electromagnets?

- a) Copper-nickel alloy
- b) Soft iron
- c) Steel
- d) Air

Q6. Inverter converts

- a) direct current into alternating current
- b) current at low voltage to current at high voltage
- c) alternating current into direct current
- d) None of these

Q7. Turbines and Dyanamos are used to convert which energy to electrical energy?

- a) Mechanical energy
 - b) Chemical energy
 - c) Solar energy
 - d) Magnetic energy
-

Q8. The resistance of a thin wire in comparison of a thick wire of the same material

- a) is equal
 - b) depends upon the metal of the wire
 - c) is low
 - d) is high
-

Q9. Which of the following metals is used as filament in lighting bulbs?

- a) Silver
 - b) Iron
 - c) Molybdenum
 - d) Tungsten
-

Q10. Which one of the following heater element is used in electric press?

- a) Nichrome wire
 - b) Lead wire
 - c) Copper wire
 - d) Iron wire
-

Q11. Which of the following is the best insulator of electricity?

- a) Paper
 - b) Graphite
 - c) Carbon
 - d) Ebonite
-

Q12. When a semiconductor is heated, its resistance

- a) increases

- b) remains unchanged
- c) decreases
- d) either (b) or (c)

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Q13. The potential barrier, in the depletion layer, is due to

- a) holes
- b) electrons
- c) ions
- d) both (b) and (c)

Q14. A magnetic needle is kept in a non-uniform magnetic field. It experiences

- a) a force but not a torque
- b) neither a force nor a torque
- c) a torque but not a force
- d) a force and a torque

Q15. In extrinsic semiconductors

- a) the gap between conduction band and valence band is more than 16 eV
- b) the gap between conduction band and valence band is near about 1 eV
- c) the conduction band and valence band overlap
- d) the gap between conduction band and valence band will be 100 eV and more

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Answers to the above questions :

Q1. Answer: (d)

Q2. Answer: (a)

Q3. Answer: (a)

Graphene is a two-dimensional material and has good electrical conduction. It is one of the thinnest but strongest materials tested so far.

It can be used for conducting electrodes required for touch screens, LCDs and organic LEDs.

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ACIDS, BASES, SALTS AND METALS

HYDROCARBON, ALCOHOL, POLYMER, ORGANIC ACID AND EXPLOSIVE SUBSTANCE
FUEL, FOOD PRESERVATION, NUTRITION, MEDICINE, DETERGENTS AND FERTILIZERS
INORGANIC CHEMISTRY ORGANIC CHEMISTRY ENVIRONMENTAL CHEMISTRY
SOME IMPORTANT MAN MADE MATERIALS SUB DIVISIONS OF BIOLOGY
GENETICS, EVOLUTION OF LIFE & ECOLOGICAL BIODIVERSITY TAXONOMY
HEREDITY BIOFERTILIZER
BIOLOGICAL CLASSIFICATION CELL TISSUES AND DIVISION HUMAN ANATOMY
BLOOD TRANSPORT SYSTEM DIGESTION AND EXCRETION PHOTOSYNTHESIS
VITAMINS, NUTRITION, HEALTH, DISEASE AND TREATMENT
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PHYSIOLOGY OF PLANTS, HUMANS AND ANIMALS REPRODUCTION
FOOD PRODUCTION BIOLOGY IN HUMAN WELFARE
ECOLOGY AND ENVIRONMENT AWARENESS
GENETIC ENGINEERING AND BIO TECHNOLOGY

Q4. Answer: (d)

Coulomb's law is true for all distances small and large.

Hence it is called a long range force.

Q5. Answer: (b)

Soft iron is highly ferromagnetic.

Q6. Answer: (a)

Inverter converts a.c. into d.c.

Q7. Answer: (a)

Q8. Answer: (d)

Q9. Answer: (d)

Q10. Answer: (c)

Q11. Answer: (d)

Ebonite is the best insulator.

Q12. Answer: (c)

Q13. Answer: (c)

Q14. Answer: (d)

A magnetic needle kept in non uniform magnetic field experience a force and torque due to unequal forces acting on poles.

Q15. Answer: (b)

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