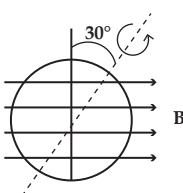




Subject : PHYSICS

- A circular loop of area 0.04 m^2 is rotating in a uniform magnetic field of 0.4 T . The loop rotates about its diameter which is perpendicular to the magnetic field. The magnetic flux through the loop when the plane of the coil is normal to the field and when it is making 30° with the field are respectively (in Wb).
 (1) $0, 0.8 \times 10^{-2}$ (2) $1.6 \times 10^{-2}, 0.8 \times 10^{-2}$
 (3) $1.6 \times 10^{-2}, 1.386 \times 10^{-2}$ (4) $1.386 \times 10^{-2}, 0$
- The radius of earth is about 6400 km and that of Mars is 3200 km . The mass of the earth is about 10 times the mass of Mars. An object weighs 300 N on the surface of Earth. Its weight on the surface of Mars will be
 (1) 100 N (2) 120 N (3) 150 N (4) 180 N
- A metal ball of mass 2 kg moving with a velocity of 36 km/h has a head on collision with a stationary ball of mass 3 kg . If after the collision, the two balls move together, the loss in kinetic energy due to collision is
 (1) 100 J (2) 120 J (3) 60 J (4) 30 J



Subject : CHEMISTRY

- (1) (2)

 (3) (4)
- Why propanol has higher boiling point than butane?
 (1) Ionic bond (2) Van der Waal's force of attraction.
 (3) Intermolecular hydrogen bond (4) Both (1) & (2).

- Both, above mentioned reactions give same product. Find the product.

 (1) Benzyl Chloride (2) Benzoyl Chloride
 (3) p-Chloro benzaldehyde (4) Benzaldehyde

Subject : BOTANY

- Choose the ploidy level of nucleus and female gametophyte?
 (1) $2n, 2n$ (2) n, n (3) $2n, n$ (4) $n, 2n$
- In eukaryotes, RNA polymerase-II is responsible for synthesis of
 (1) mRNA (2) 5S rRNA (3) 28S rRNA (4) tRNA
- Which of the following enzyme is used in PCR reaction?
 (1) RNA dependent DNA polymerase
 (2) DNA dependent DNA polymerase
 (3) RNA dependent RNA polymerase
 (4) DNA dependent RNA polymerase

Subject : ZOOLOGY

- Select the incorrect one with regarding to clotting mechanism in humans
 (1) Calcium ions (2) Heparin
 (3) Fibrin (4) Thrombokinase
- Following animals have dry cornified skin covering their body except
 (1) Chelone (2) Bangarus (3) Pavo (4) Testudo
- Assertion (A): In cancer, normal cells are transformed into neoplastic cells.
 Reason (R): X-rays, Gamma rays and UV rays cause DNA damage.
 (1) Both (A) and (R) are correct, (R) is the correct explanation of A.
 (2) Both (A) and (R) are correct, (R) is not correct explanation of (A).
 (3) (A) is correct, but (R) is incorrect.
 (4) (A) is incorrect, but (R) is correct.

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