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Sample question paper

Chemistry

Question 1:

The density (in g mL^{-1}) of a 3.60 M sulphuric acid solution that is 29% H_2 SO₄ (Molar mass =98g mol^{-1}) by mass will be

> A) 1.40

- **B)** 1.50
- > C) 1.88
- **D)** 1.22

Question 2:

In the cell reaction Cu (s) +2 Ag⁺ (aq)? cu^{2+} (aq)+2 Ag (s), E^0_{cell} = 0.46 V. By doubling the concentration of Cu^{2+} , E^0_{cell} is

- > A) doubled
- > B) Does not changed
- > C) increased but less than double
- > D) decreased by a small fraction

Question 3:

Before introducing FeO in blast furnace, it is converted to Fe₂ O₃ by roasting so that

- > A) it may not be removed as slag with silica
- > B) it may not evaporate in the furnace
- > C) Presence of it may increase the m.p of charge
- > D) It may not form iron carbide with coke.

Question 4:

Which of the following statements is incorrect?

- > A) Cr²⁺ is strongly reducing while Mn³⁺ is strongly oxidizing.
- **>** B) Co²⁺ is stable in aqueous solution but in the presence of complexing reagents it is easily oxidised.
- \rightarrow C) [Cu(CN)₄]²⁻ is more stable than [Cu(NH₃)₄]²⁺
- **D)** [Ti F_6]²⁻ is highly unstable while [Ti Cl_6]²⁻ is stable.Question

Question 5.

Reaction of cyclohexanone with dimethylamine in the presence of catalytic amount of an acid forms a compound if water during the reaction is continuously removed. The compound formed is generally known as

- > A) an enamine
- > B) a Schiff's base
- > C) an amine

> D) an imine

Physics

Question 1

An electron moving towards the east enters a magnetic field directed towards the north. The force on the electron will be directed.

- > A) vertically upward
- > B) vertically downward
- > C) towards the west
- > D) towards the south.

Question 2.

In a LCR series circuit, at resonant frequency

- > A) the impedance and the current are maximum
- > B) the impedance is maximum
- > C) the current and voltage are out of phase
- > D) the current is maximum

Question 3:

The saturation current I of a photocell varies with distance from the source (d) is

- > A) I? d
- ▶ B) I ? d²
- > C) I ? I/d
- > D) I ? I/d²

Question 4:

A radioactive element X with half life 2 hrs decays giving a stable element Y. After a time t,ratio of X to Y atoms is 1:16 time t is

- A) 6 hrs
- > B) 4 hrs
- > C) 8 hrs
- **D)** 16 hrs

Question 5:

If no external voltage is applied across p-n junction, there would be

- > A) no electric field pointing across the junction .
- ▶ B) an electric field pointing from n- type to p- type side across the junction.
- **>** C) an electric field pointing from p- type to n- type side across the junction.
- **D**) a temporary electric field during formation of p-n junction that would subsequently disappear.

Mathematics

Question 1:

The sum of three consecutive terms in a geometric progression is 14. If 1 is added to the first and the second terms and 1 is subtracted from the third, the resulting new terms are in arithmetic progression. Then the lowest of the original term is

- > (A) 1
- > (B) 2
- > (C) 4
-) (D) 8

Question 2:

In the polynomial (x-1)(x-2)(x-3).....(x-100) the coefficient of x^{99} is

- > (A) 5050
- > (B) 5050
- > (C) 100
- > (D) 99

Question 3:

India plays two matches each with West Indies and Australia. In any match the probabilities of India getting points 0, 1 and 2 are 0.45, 0.05 and 0.50 respectively. Assuming that the outcomes are independent, the probability of India getting at least 7 points, is:

- > (A) 0.8750
- > (B) 0.0875
- > (C) 0.0625

> (D) 0.0250

Question 4:

An unbiased coin is tossed. If the result is a head, a pair of unbiased dice is rolled and the number obtained by adding the numbers on the two faces is noted. If the result is a tail, a card from a well shuf?ed pack of eleven cards numbered 2, 3, 4,.....,12 is picked and the number on the card is noted. The probability that the noted number is either 7 or 8, is

- > (A) 0.24
- > (B) 0.244
- > (C) 0.024
- > (D) None of these

Question 5:

There exists a function f(x) satisfying f(0) = f(1), f'(0) = -1, f(x) > 0 for all x, and

- \rightarrow (A) f''(x)>0 for all x
- \rightarrow (B) 1 < f''(x)<0 for all x
- \rightarrow (C) 2 < f''(x)?-1 for all x
- \rightarrow (D) f"(x) <-2 for all x

Biology

Question 1:

Maximum life span of dog is:

- > (A) 5 years
- > (B) 10 years
- > (C) 15 years
- > (D) 20 years

Question 2:

The most abundant element present in plants is:

- > (A) Manganese
- > (B) Iron
- > (C) Carbon

> (D) Nitrogen

Question 3:

Hunger center in human is present in

- > (A) Medulla oblongata
- > (B) Hypothalamus
- > (C) Pons varolii
- > (D) Mitochondria

Question 4:

Energy ?ow and energy transformations of a living system follow:

- > (A) Law of limiting factor
- > (B) Law of thermodynamics
- > (C) Liebig's law of minimum
- > (D) Biogenetic law

Question 5:

The statement correct about enzymes is:

- > (A) they are amino acids
- ightharpoonup (B) they are most active at a temperature of 0° C
- > (C) they are all proteins
- > (D) they are most active at pH 6.9

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