



Subject : **PHYSICS**

- The maximum speed of a car on a road turn of radius 40 m, if the coefficient of friction between the tyres and the road is 0.5, will be.  
(1) 10 m/s (2) 12 m/s  
(3) 14 m/s (4) 3.94 m/s
- Charges on two identical metal balls of Q and 3Q. They are kept at the same distance after an initial contact. What is the ratio of initial to final force?  
(1) 3 : 4 (2) 4 : 3 (3) 1 : 2 (4) 3 : 2
- A ball is thrown at an angle  $60^\circ$  from the ground. It grows to its maximum height in 10s. What is the projected velocity of the object? (Take  $g = 10 \text{ m/s}^2$ )  
(1) 75.3 m/s (2) 115.5 m/s  
(3) 220 m/s (4) 150 m/s

Subject : **CHEMISTRY**

- When the chemical reaction of a cell is reversed,  
(1) Opposing EMF is smaller than that of the cell.  
(2) Opposing EMF is equal to the cell.  
(3) Opposing EMF is greater than that of the cell  
(4) Both (1) and (2)
- Calculate the molarity of a solution containing 3g of NaOH in 150 ml solution.  
(1) 0.25 mol L<sup>-1</sup> (2) 0.5 mol L<sup>-1</sup>  
(3) 0.15 mol L<sup>-1</sup> (4) 0.0005 mol L<sup>-1</sup>
- Which of the given unit is useful in relating concentration with its vapour pressure?  
(1) Molarity (2) Mole fraction  
(3) Parts per million (4) Molality

Subject : **BOTANY**

- Which plant hormone is responsible for the promotion of female flowers in cucumber?  
(1) Auxin (2) Abscisic acid  
(3) Ethylene (4) Cytokinin

- Assertion (A): Magnesium is absorbed by plants in the form of  $\text{Mg}^{2+}$   
Reason (R):  $\text{Mg}^{2+}$  is involved in the synthesis of nucleic acids (RNA and DNA).  
(1) (A) and (R) are true and (R) is the correct explanation of (A).  
(2) (A) and (R) are true, and (R) is not the correct explanation of (A).  
(3) (A) is true, but (R) is false.  
(4) (A) is false, but (R) is true.
- Choose the correct statements regarding the factors affecting photosynthesis  
(i) Oxygen is the most limiting factor for photosynthesis.  
(ii) If the incident light increases beyond a certain point there will be a decrease in photosynthesis.  
(1) (i) and (ii) are correct.  
(2) (i) is correct and (ii) is incorrect.  
(3) (i) is incorrect and (ii) is correct.  
(4) (i) and (ii) are incorrect.

Subject : **ZOOLOGY**

- The correct order of events from Fertilisation to implantation in a human female is  
(1) Zygote → Blastomeres → Blastocyst → Morula.  
(2) Blastocyst → Zygote → Blastomeres → Morula.  
(3) Blastocyst → Blastomeres → Morula → Zygote.  
(4) Zygote → Blastomeres → Morula → Blastocyst.
- In class Aves, the Sex determination mechanism and chromosome designation of females are.  
(1) Male Heterogamety, ZW  
(2) Male Heterogamety, ZZ  
(3) Female Heterogamety, ZW  
(4) Female Heterogamety, ZZ
- A state of complete physical, mental and social wellbeing and not merely an absence of disease is called as  
(1) Health (2) Homeostasis  
(3) Haemostasis (4) Immunity

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