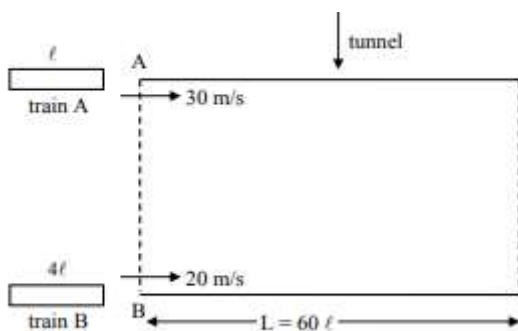


## JEE Main 2024 Daily Practice Questions

### Physics:

**Ques.** Train A takes 35 sec less than train B. Find the length of the tunnel.



**Ques.** The mass of a planet is equal to 9 times of mass of Earth and its radius is 4 times the radius of Earth. Find the escape velocity (in km/sec) of the planet. [Given; escape velocity of earth  $V_e = 11.2 \text{ km/sec}$ ].

**Ques.** For a polytropic process  $P = av^2$ . Find Bulk Modulus:

1.  $2P$
2.  $P$
3.  $3P$
4.  $0$

### Chemistry:

**Ques.** 12g of non-electrolyte 'A' dissolved in 1000 ml of solution. It is isotonic with a 0.05 molar glucose solution. Find the molar mass of 'A'.

**Ques.** In which of the following options does the species change from paramagnetic to diamagnetic and bond order increase?

**Ques.** What happens when lyophilic sol is added to lyophobic sol.

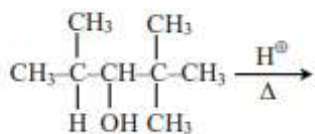
1. Prevention from coagulation

2. Precipitation

3. Electrophoresis

4. Coagulation

**Ques.**



The total number of products obtained by tertiary carbocation in the above reactions.

**Mathematics:**

**Ques.** If PQ is a focal chord of  $y^2 = 36x$  with  $PQ = 100$  and M divides PQ in the ratio 3:1, then the line through M perpendicular to PQ pass-through-

1. (1, 0)

2. (2, 3)

3. (3, 33)

4. (4, 4)

**Ques.** The number of symmetric matrices of order  $3 \times 3$  which can be constructed from the elements  $\{0, 1, 2, 3, \dots, 9\}$  is-

1.  $10^5$

2.  $10^9$

3.  $10^4$

4.  $10^6$

***Ques. Let the probability of getting a head is thrice the probability of getting a tail. A coin is tossed until one head or 3 tails are obtained. If the number of trials is 24, then the mean of the experiment is.***

1. 28.5

2. 31.5

3. 25

4. 26.5