JEE Main 2024 Daily Practice Questions

Physics:

Ques. If the height of the tower used for L.O.S is increased by 21% then the percentage change in range is:

1. 10%

2. 21%

3. 19%

4. 42%

Ques. Two bodies having the same linear momentum have a ratio of kinetic energy of 16:9. Find the ratio of masses of these bodies.

1. 9/16

2. 4/3

3. 3/4

4. 16/9

Ques. Which of the following shows a time-varying magnetic field?

1. Linearly varying

2. Permanent magnet

3. Antenna signal

4. Constant electric field

Chemistry:

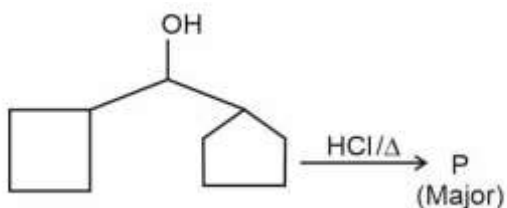**Ques. What is the major product formed in the following reaction:**

$$CH_3 - (CH_2)_4 - CH_3 \xrightarrow[\text{HCl, } \Delta]{\text{Anhy. AlCl}_3} \text{Major product}$$

(1) $CH_3 - \overset{\overset{\displaystyle CH_3}{|}}{\underset{\underset{\displaystyle CH_3}{|}}{C}} - CH_2 - CH_3$

(2) $CH_3 - CH - \overset{\overset{\displaystyle CH_3}{|}}{\underset{\underset{\displaystyle CH_3}{|}}{CH}} - CH_3$

(3) $CH_3 - CH - \underset{\underset{\displaystyle CH_3}{|}}{(CH)_2} - CH_3$

(4) $CH_3 - CH - \underset{\underset{\displaystyle Cl}{|}}{(CH_2)_2} - CH_3$

Ques. Which one of the following shows an incorrect method of refining?

1. Zinc: Liquation

2. Copper: Electrolysis

3. Titanium: Van Arkel Method

4. Nickel: Mond's Process

Ques. Consider a reaction:

Which of the following conclusions is correct about the product P?

1. Both rings will be 5-membered

2. Both rings will be 6-membered

3. One ring is 5-membered and the other is 6-membered

4. One of the rings is 4-membered

Mathematics:

Ques. How many symmetric matrices of order 3X3 can we form (0, 1, 2, …, 9) 3X3

Ques. A coin is biased so that the head is 3 times as likely to occur as the tail. This coin is tossed until a head or three tails occur. If X denotes the number of t are of the coin, then the mean of X is.

Ques. The number of 7-digit numbers using 1,2,3,4 such that the sum of all digits is 12 is.