MCTTEST

PAPER 1

INSTRUCTIONS

Exam Instruction:

- Exam rules

Chemistry

Q 1

Answer: 2

Solution : An electric cell has two terminals.

They are positive and negative terminals. The positive terminal is said to be at the cathode, and the negative terminal is at the anode. The electric cell should be connected to the two terminals correctly. Otherwise, the cell does not work.

Q 2

Answer: 90; 10

Solution :

The average atomic mass of a sample of an element X is16.2 u. Then the percentage of isotopes

$^{16}_{8}X$

and

$^{18}_{8}X$

is 90% and 10% respectively.

Given,

The average atomic mass of X is 16.2 u.

Let the percentage of isotope

$^{16}_{8}X$

is A% and of

$^{18}_{8}X$

is (100-A)%.

So,

$\Rightarrow 16 \times \frac{A}{100} + 18 \times \frac{100-A}{100} = 16.2$

$\Rightarrow \frac{16A}{100} + \frac{1800-18A}{100} = 16.2$

$\Rightarrow 1800 - 2A = 1620$

$\Rightarrow 2A = 180$

$\Rightarrow A = 90$

So,

$^{16}_{8}X$

is 90% and

$^{18}_{8}X$

is 10% (100-A)= (100-90)=10%.

Q 3
Answer: 5000
Solution : 5 kilometres is equal to 5000 metres.
A metre is a unit for measuring distances. We define a greater unit of distance, which is known as a kilometre km.
We know the relation between m and km,

$$1\ km\ =\ 1000\ m$$
$$\Rightarrow 5\ km =\ 1000 \times\ 5\ m$$
$$\Rightarrow 5\ km =\ 5000\ m$$

Q 4
Answer: 1
Solution :
In 1937 the government announced the elections to the provincial legislatures.

Q 5
Answer: 1
Solution :
Gandhiji and his followers have marched for over 240 miles and have marched from Sabarmati to the Costal town of Dandi in order to break the salt law.

Q 6
Answer:
Solution :
At the age of 46 Mahatma Gandhi arrived in India from South Africa and have organised various non-violent marches throughout the country.

Q 7
Answer: 1913
Solution :
Muhammad Ali Jinnah was a politician and become a leader of the All India Muslim League in 1913.

Q 8
Answer:
Solution :
The Planning Commission was set-up in 1950. The main objective of the Planning Commission was to design policies for the growth and development of the country.

Q 9
Answer:
Solution :
The height of tropical evergreen trees goes upto 60 metres or even above because these forests are generally found in regions receiving high rainfall. Consequently, trees get required amount of water and grows well.

Q 10
Answer: 1898
Solution :
In 1898, Socialists founded the Russian social democratic worker party which admire Karl Marx. The party was forced to operate secretly like an illegal organisation because of the government policies.

Q 11
Answer:
Solution :
The poverty rate of Uttar Pradesh as per the census, 2011 was 29.4%.

Q 12
Answer:
Solution :
Uttar Pradesh has a population of about 199 million people making it the highest populated state in India.

Q 13
Answer:
Solution :
India's population was 361 millions in 1951.

Q 14
Answer:
Solution :
Some of the studies state that India will take over China in 2045 and become the most populous country due to the subsequent rise in the population.

Q 15
Answer: 1889
Solution :
The international body which was formed in Paris in 1889 was called the second international.