

SS2 CHEMISTRY TEST

1. Which of the following statements is true?

- a) The cathode is the positive electrode which attracts anions to it.
- b) The anode is the positive electrode which attracts cations to it.
- c) The cathode is the negative electrode which attracts cations to it.

2. Which of the following statements is false?

- a) Reduction occurs at the anode.
- b) The positive electrode attracts negative ions.
- c) Oxidation occurs at the anode.

3. In the electrolysis of molten lead(II) bromide using graphite electrodes:

- a) Lead forms at the cathode and bromine forms at the anode.
- b) Bromine forms at the cathode and lead forms at the anode.
- c) Hydrogen forms at the cathode and bromine forms at the anode.

4. In the electrolysis of molten aluminium oxide, the electrodes are made from:

- a) Aluminium b) Steel c) Carbon

5. Which of the following half equations occurs at the anode in the electrolysis of aluminium oxide?

- a) $\text{Al}^{3+} + 3\text{e}^- \rightarrow \text{Al}$
- b) $2\text{O}^{2-} \rightarrow \text{O}_2 + 4\text{e}^-$ c) $\text{O}^{2-} \rightarrow \text{O} + 2\text{e}^-$

6. Which of the following statements summarises the observations during the electrolysis of molten lead(II) bromide using graphite electrodes?

- a) Grey liquid forms at the cathode and green vapour forms at the anode.
- b) Grey liquid forms at the cathode and red-brown vapour forms at the anode.
- c) Grey liquid forms at the cathode and purple vapour forms at the anode.

7. During the electrolysis of dilute sulfuric acid which of the following is correct?

- a) Oxygen is produced at the cathode and hydrogen at the anode.
- b) Hydrogen is produced at the cathode and oxygen at the anode.
- c) The volume of oxygen produced is twice the volume of hydrogen.

8. Which of the following statements about electrolysis is incorrect?

- a) The positive electrode is the cathode.
- b) The negative electrode is the cathode.
- c) The positive electrode is the anode.

9. In electrolysis, what is the name of the negative electrode?

- a) Electrolyte b) Cathode c) Anode

10. What happens at the anode during electrolysis?

- a) Negative ions gain electrons
- b) Positive ions gain electrons
- c) Negative ions lose electrons

11. In the electrolysis of molten lead bromide, what is the product at the anode?

- a) Lead b) Bromine c) Oxygen

12. In the electrolysis of copper nitrate solution, what is the product at the cathode?

- a) Oxygen b) Hydrogen c) Copper

13. In the electrolysis of a solution, which ions from water are attracted to the anode?

- a) Hydroxide, OH^- c) Oxide, O^{2-}
- b) Hydrogen, H^+

14. In the electrolysis of sodium chloride solution, what is the product at the cathode?

- a) Hydrogen b) Sodium c) Chlorine

15. What is reduction?

- a) Adding oxygen c) Losing electrons
- b) Gaining electrons

16. Which half equation represents the reaction at the cathode in the

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**Georg Reifferscheid, Sebastian
Buchinger**



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Evans, Mike E. Foulkes, 2019 Analytical Chemistry A Practical Approach is the only chemical analysis text with an emphasis on active learning giving students step by step guidance on how the key principles of analytical science are applied in a range of practical real world contexts [14 Years' IIT JEE Unsolved Question Papers 2020](#) Arihant Experts, 2019-09-11 IIT

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Peter Styring,Katy Armstrong,Grant Wilson,2018-11-02 Carbon dioxide utilisation is a growing field of research that spans early stage laboratory chemistry through to commercial exploitation In 2013 the CO2Chem Network www.co2chem.com made a successful bid to hold the 14th edition of this major conference This was the first time it was held in the United Kingdom and attracted over 270 delegates from 32 different countries It was a condition of presentation that all the work submitted was new and novel We invited submissions of new work for this Research Topic and manuscripts were subjected to deep peer review We are pleased that these papers are now being collated into an eBook We value the range and quality of the papers submitted These range from novel capture integration and process through to policy public perception and economic evaluation CO2Chem was proud to be chosen to organise this prestigious conference CO2Chem was founded in 2010 as one of the Engineering and Physical Sciences EPSRC Grand Challenge Networks It is now in its eighth year of operation and its third round of direct funding It continues to be a forum for discussion and collaboration nationally and globally We have for a long time associated ourselves with ICCDU and will continue to do so in the future We hope that the papers presented here serve as a catalyst to further research in CDU and to engagement with ICCDU [Computational genomics and structural bioinformatics in personalized medicines, volume II](#) George Priya Doss C,Thirumal Kumar D,Balu Kamaraj,2023-11-06

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