

21. Which of the elements show passivity when treated with conc. HNO<sub>3</sub>.

- A. Fe    B. A?  
C. Cr    D. All of the above

**Answer:** Option D

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22. Which allotropic form of phosphorous is the most stable?

- A. White                                      B. black  
C. red                                         D. Violet

**Answer:** Option B

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23. The gas which cannot be dried by conc. H<sub>2</sub>SO<sub>4</sub>

- A. SO<sub>2</sub>                                         B. H<sub>2</sub>S  
C. CO<sub>2</sub>                                       D. C<sub>2</sub>H<sub>4</sub>

**Answer:** Option B

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24. The chemical composition of cinnabar is

- A. ZnS                                         B. PbS  
C. HgS                                        D. FeS

**Answer:** Option C

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25. FeSO<sub>4</sub> forms brown ring with

- A. N<sub>2</sub>O<sub>3</sub>                                        B. NO<sub>2</sub>  
C. NO                                         D. N<sub>2</sub>O

**Answer:** Option C

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26. Oxygen and sulphur resemble in all except

- A. Electronic configuration of valence shell electrons
- B. Show allotropy
- C. Polymeric
- D. Show same oxidation state

**Answer:** Option D

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27. Oxygen does not react with all except

- A. Alkali
- B. Acid
- C. Water
- D. Metals

**Answer:** Option D

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28. Arsenic oxides are removed by passing through

- A. Ferric hydroxide
- B. Sodium hydroxide
- C. Calcium hydroxide
- D. Aluminium hydroxide

**Answer:** Option A

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29. In which compound nitrogen has maximum oxidation state

- A. N<sub>2</sub>O
- B. NO<sub>2</sub>
- C. HNO<sub>2</sub>
- D. HNO<sub>3</sub>

**Answer:** Option D

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30. When sulphuric acid is treated with ethanol sulphuric acid behaves like

- A. an acid
- B. a dehydrating agent
- C. an oxidizing agent
- D. as sulphonating agent

**Answer:** Option B