Assignment 9_Chemistry of main group elements

The due date for submitting this assignment has passed. Due on 2018-03-28, 23:59 IST.

Submitted assignment

1) Decomposition of ammonium sulphate gives

- N₂, SO₂ and H₂SO₄
- N₂ and H₂S₂O₇
- NH₃, SO₂ and H₂SO₄
- NH₃ and H₂SO₄

No, the answer is incorrect.
Score: 0
Accepted Answers:
NH₃ and H₂SO₄

2) Thermal disproportionation of phosphorus acid (H₃PO₃) gives

- PH₃ and H₃PO₂
- H₄P₂O₆ and PH₃
- PH₃ and H₃PO₄
- PH₃ and H₄P₂O₇

No, the answer is incorrect.
Score: 0
Accepted Answers:
PH₃ and H₃PO₄

3) The reaction of HN₃ with [N₂F][SbF₆] in HF at 195 K results in the formation of

- [NH₄]⁺[SbF₆]⁻
- NF₅

No, the answer is incorrect.
Score: 0
Accepted Answers:
NF₅
4) The reaction of NO with N$_2$O$_4$ at low temperature leads to the formation of

- N$_2$O
- N$_2$ and O$_2$
- N$_2$O$_3$
- N$_2$O$_5$

No, the answer is incorrect.
Score: 0
Accepted Answers: N$_2$O$_3$

5) Thermal decomposition of dry lead(II) nitrate result in the formation of

- Pb$_3$O$_4$, NO, O$_2$ and N$_2$
- PbO, N$_2$O$_3$ and O$_2$
- PbO, NO$_2$ and O$_2$
- Pb$_2$O$_2$, N$_2$O and O$_2$

No, the answer is incorrect.
Score: 0
Accepted Answers: PbO, NO$_2$ and O$_2$

6) Nitric acid on decomposition, gives

- NO, H$_2$O and O$_2$
- NO$_2$, H$_2$O and O$_2$
- N$_2$O$_3$, H$_2$O and O$_2$
- N$_2$O$_5$, H$_2$O and O$_2$

No, the answer is incorrect.
Score: 0
Accepted Answers: NO$_2$, H$_2$O and O$_2$

7) Cu reacts with conc. HNO$_3$ to give

- Cu(NO$_3$)$_2$, NO and H$_2$O
- Cu(NO$_3$)$_2$, NO$_2$ and H$_2$O
- Cu(NO$_3$)$_2$, HNO$_2$ and H$_2$O
- Cu(NO$_3$)$_2$, N$_2$O and H$_2$O

No, the answer is incorrect.
Score: 0
Accepted Answers: Cu(NO$_3$)$_2$, NO$_2$ and H$_2$O

8) The reaction of phosphorus trioxide with cold water leads to the formation of

- H$_3$PO$_2$
9) The reaction of $P_4O_6$ with one equivalent of $Me_2S\cdot BH_3$ followed by slow crystallization from toluene solution at 244 K gives

- $P_4O_6\cdot BH_3$
- $P_{16}O_{24}(BH_3)_4$
- $P_8O_{12}(BH_3)_2$
- $P_{12}O_{18}(BH_3)_3$

No, the answer is incorrect.
Score: 0
Accepted Answers:
$H_3PO_3$

10) $P_4S_{10}$ on hydrolysis gives

- $H_3PO_2$ and SO$_2$
- $H_3PO_3$ and H$_2$S
- $H_3PO_4$ and H$_2$S
- $H_4P_2O_6$ and SO$_2$

No, the answer is incorrect.
Score: 0
Accepted Answers:
$H_3PO_4$ and $H_2S$