Assignment 11_Chemistry of main group elements

The due date for submitting this assignment has passed. **Due on 2018-04-11, 23:59 IST.**

Submitted assignment

1) Sulfur dioxide (SO₂) reacts with Cl₂ in the presence of activated charcoal to form

- SOCl₂ and ClO₂
- S₂Cl₂ and Cl
- SCl₂ and O₂
- SO₂Cl₂

**No, the answer is incorrect.**

*Score: 0*

*Accepted Answers:*

- **SO₂Cl₂**

2) Structures of TeF₄ and TeCl₄, respectively, are

- monomeric and monomeric
- polymeric and tetrameric
- tetrameric and tetrameric
- tetrameric and polymeric

**No, the answer is incorrect.**

*Score: 0*

*Accepted Answers:*

- **polymeric and tetrameric**

3) Peroxosulfuric acid, H₂S₂O₈, is synthesised by reacting H₂O₂ with.....

- FSO₂(OH)
- CISO₂(OH)

**No, the answer is incorrect.**

*Score: 0*

*Accepted Answers:*

- **FSO₂(OH)**
- **CISO₂(OH)**
4) On heating $K_2[MnF_6]$ with SbF$_5$ at 420 K, products obtained are

- $K[SbF_6]$, $K_3MnF_6$ and $F_2$
- $K[SbF_6]$, $K_2MnF_5$ and $F_2$
- $K[SbF_6]$, $MnF_2$ and $F_2$
- $K[SbF_6]$, $MnF_3$ and $F_2$

No, the answer is incorrect.
Score: 0
Accepted Answers: $K[SbF_6]$, $MnF_2$ and $F_2$

5) Hydrolysis of PBr$_3$ gives

- HBr and $H_3PO_3$
- HBr and $H_3PO_4$
- HOBr and $H_3PO_2$
- HOBr and $HPO_3$

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

6) In Cl$_2$O$_7$ the number of bridging and terminal oxygen atoms present is

- 1 and 6
- 2 and 5
- 3 and 4
- 0 and 7

No, the answer is incorrect.
Score: 0
Accepted Answers: 1 and 6

7) ClF$_3$ reacts with CsF and AsF$_5$, respectively, to give

- ClF$_2^+CsF^-$ and ClAsF$_6$
- CsClF$_4$ and ClF$_4^+AsF_4^-$
- $[F_2Cl]^+[CsF_2]^-$ and ClF$_2^+AsF_6^-$
- CsClF$_4$ and ClF$_2^+AsF_6^-$

No, the answer is incorrect.
Score: 0
Accepted Answers: CsClF$_4$ and ClF$_2^+AsF_6^-$

8) The self-ionization of IF$_5$, leads to the formation of

- [I$_2$]$^+[IF$_6$]$^-$
- IF$_3$ and $F_2$

No, the answer is incorrect.
Score: 0
Accepted Answers: [I$_2$]$^+[IF$_6$]$^-$
9) Krypton difluoride (KrF\(_2\)) reacts with gold (Au) to give

- \([\text{KrF}]^+ [\text{AuF}_6^-], \text{Kr} \text{ and } \text{F}_2\)
- \([\text{F}_3]^+ [\text{AuF}_6^-] \text{ and Kr}\)
- \([\text{KrF}]^+ [\text{AuF}_6^-] \text{ and Kr}\)
- \(\text{AuF}_5 \text{, Kr and } \text{F}_2\)

No, the answer is incorrect.
Score: 0
Accepted Answers:
- \([\text{KrF}]^+ [\text{AuF}_6^-] \text{ and Kr}\)

10) In \([\text{Sb}_2\text{F}_{11}]^-\) the number of bridging and terminal fluorine atoms present is

- 3 and 8
- 2 and 9
- 1 and 10
- 0 and 11

No, the answer is incorrect.
Score: 0
Accepted Answers:
- 1 and 10