

INORGANIC CHEMISTRY

CLASS – XII
(A-Star Batch)

DPP - 13

Answer the following as directed :

S.No.	Compound or species	Bond pairs (σ -bond) w.r.t. C.A.	Lone pairs w.r.t. C.A.	Hybridisation w.r.t. C.A.	Shape or Geometry	Planer or Non-planer	Polar or Non-polar	Bond angle w.r.t.C.A.
1.	I_3^+							
2.	C_3O_2							
3.	S_3O_9							
4.	ClO_3^-							

5.	P_4 (white/yellow phosphorus)							
6.	P_4O_6							
7.	P_4O_{10}							
8.	S_2F_{10}							
9.	RbIO_2							

10.	$\text{Cl}_3\text{C}_3\text{N}_3$							
11.	N_3^- (Azide ion)							
12.	N_2O_5							
13.	HCN							
14.	HNC							
15.	NOCl							
16.	N_2O							

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17.	CO							
18.	SiO ₂							
19.	I ₃ [—]							
20.	S ₂ Cl ₂							

21.	$\text{P}_2\text{O}_8^{4-}$							
22.	IF_6^-							
23.	$\text{Na}_6\text{P}_6\text{O}_{18}$							
24.	$\text{H}_5\text{P}_3\text{O}_{10}$							
25.	$\text{H}_6\text{P}_4\text{O}_{13}$							

26.	P_4S_3							
27.	P_4S_{10}							
28.	$\text{C}_3\text{N}_3(\text{N}_3)_3$							
29.	NO							
30.	NO_2							

31.	ClO_3							
32.	KO_2							
33.	ClO_2 (Chlorine dioxide)							



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