

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 ₄ O ₆						
7.	P ₄ O ₁₀						
8.	S ₂ F 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_2Cl_2							

21.	$P_2O_8^{4-}$
22.	IF_6^-
23.	$Na_6P_6O_{18}$
24.	$H_5P_3O_{10}$
25.	$H_6P_4O_{13}$

26.	P_4S_3
27.	P_4S_{10}
28.	$C_3N_3(N_3)_3$
29.	NO
30.	NO_2

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



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