Model Question Paper

p - Block Elements - -Part IV

12th Standard

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Chemistry	Reg.No. :				
I.Answer all the questions.					
II.Use Blue pen only.					
Time : 01:15:00 Hrs			Tota	l Marks :	: 60
Section-A				5x1	
1) Electronic configuration of 14^{th} group element(carbon family) is					
(a) ns^2np^2 (b) ns^1np^1 (c) ns^1np^2 d (d) ns^2np^1					
2) Silicones act as excellent insulators for eletric motors because					
(a) they can withstand high temperature (b) they can withstand pressure (c) they are water repellant (d) they are volatile					
3) Lead is mainly extracted from					
(a) PbO (b) Pb CO_3 (c) Pb SO_4 (d) PbS					
4) Red lead is					
(a) PbO (b) Pb_3O_4 (c) Pb O_2 (d) P b_2O_2					
5) An additive to petrol to prevent knocking					
(a) diethyl lead (b) diethyl zinc (c) diethyl lithium (d) tetraethyl lead					
Section-B				4 x 3 =	: 12
6) Write any three uses of lead.					
7) How is phosphorus trichloride prepared?					
8) What is the action of PCL ₃ with SO ₃ ?					
 8) What is the action of PCL₃ with SO₃? 9) Complete and balance the following equations a) PCl₃ + C₂H₅OH → b) PCl₃ + O₂ → Section-C 10) Write notes on preparation of silicones. 11) Illustrate (i)tribasic nature of orthophosphoric acid. (ii) reducting property of phosphorous acid 12) Explain the following : i) dehydrating property of P₂O₅. ii) oxidising power of fluorine 13) Discuss the structure of interphalogen compounds of AY and AY, type 					
Section-C				4 x 5 =	: 20
10) Write notes on preparation of silicones.					
11) Illustrate (i)tribasic nature of orthophosphoric acid. (ii) reducting property of phosphorous acid					
12) Explain the following : i) dehydrating property of P_2O_5 . ii) oxidising power of fluorine					
13) Discuss the structure of interhalogen compounds of AX and AX _s type. Section-D				2 x 10 =	- 20
14) a) Explain the structure of inter halogen compound of the type AX ₃				2 X 10 -	. 20
b) Explain the structure of IF_7					
 15) a) What is the shape of PCL₃? Draw its structure and electron dot formula. 					
b) How is PCL₅ prepared?					
