

13.1 Transition Metals

Question Paper

Course	DP IB Chemistry
Section	13. The Periodic Table-Transition Metals (HL only)
Topic	13.1 Transition Metals
Difficulty	Easy

Time allowed: 10

Score: /5

Percentage: /100



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Question 1

What is the charge on the complex ion in [Fe(H_2O) $_6$]Br $_2$?	
A. O	
B. +1	
C.+2	
D. +3	
	[1 mark]
Question 2	
Which of the following are properties of transition metals?	
I. They have variable oxidation states II. They can behave as catalysts	
III. They can have magnetic properties	
A. I and II only	
B. I and III only	
C. II and III only	
D. I, II and III	
	[1 mark]
Question 3	
Which of the following are factors which affect the colour of a transition metal ion complex?	
I. The identity of the metal ion	
II. The oxidation state of the metal ion III. The number of neutrons in the metal ion	
A. I and II only	
B. I and III only	
C. II and III only	
D. I, II and III	
	[1 mark]



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Question 4

A. [Ar] 3d⁸

B. [Ar] 4s²3d⁶

C. [Ar] 4s²3d⁸

D. [Ar] 4s¹3d⁷

Which species can not act as a ligand?

A. H ₂ O	
B. NH ₄ ⁺	
C.Cl ⁻	
D. OH-	
	[1 mark]
Question 5	
What is the abbreviated electron configuration of the nickel(II) ion, Ni ²⁺ ?	

[1 mark]