

18.1 Further Aspects of Acids & Bases

Question Paper

Course	DP IB Chemistry
Section	18. Acids & Bases (HL only)
Торіс	18.1 Further Aspects of Acids & Bases
Difficulty	Easy

Time allowed:	10
Score:	/5
Percentage:	/100

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Question 1

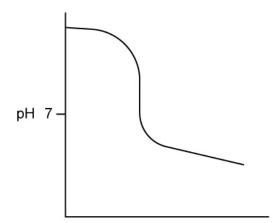
Which definition of a Lewis acid is correct?

- A. Electron pair donor
- B. Electron pair acceptor
- C. Proton donor
- D. Proton acceptor

[1 mark]

Question 2

Which type of titration is indicated by the following pH curve?



- A. Strong acid strong base
- B. Weak acid weak base
- C. Strong acid weak base
- D. Weak acid strong base

[1mark]

Question 3

Which of the following best describes ammonia, NH_3 , in the following equation?

 $BF_3 + NH_3 \rightarrow BF_3NH_3$

- A. Lewis acid
- B. Lewis base
- C. Coordinate bond
- D. Brønsted-Lowry acid

Question 4

Which mixture **cannot** act as a buffer?

- A. CH_3COOH (aq) and CH_3COONa (aq)
- B. CH_3CH_2COOH (aq) and CH_3CH_2COONa (aq)
- C. HNO_3 (aq) and NaOH (aq)
- D. NH_3 (aq) and NH_4CI (aq)

Question 5

The hydrolysis of ammonium chloride takes place via the following reaction.

 $NH_4^+ + H_2O \rightarrow H_3O^+ + NH_3$

Which of the following is correct?

- A. The resultant pH is above 7
- B. The resultant pH is 7
- C. The resultant pH is below 7
- D. Ammonium chloride is insoluble

[1mark]

[1mark]

[1 mark]

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