12. Based on Reference Table J, which of the following elements will replace Pb from Pb(NO ₃) ₂ (aq)?
A) Mg(s) B) Au(s) C) Cu(s) D) Ag(s)
13. According to Reference Table J, which element will react spontaneously with Al ³⁺ at 298 K?
A) Cu B) Au C) Li D) Ni 14. Due to it having a low activity, which element can be
found in nature in the free (uncombined) state?
A) Ca B) Ba C) Au D) Al 15. According to Reference Table J, which pair will
react spontaneously at 298K?
A) Cu + H ₂ O B) Ag + H ₂ O C) Ca + H ₂ O D) Au + H ₂ O
16. According to Reference Table J, which will reduce Mg ²⁺ to Mg(s)?
A) Fe(s) B) Ba(s)
C) Pb(s) D) Ag(s)
17. According to Reference Table J, which atom-ion pair will react spontaneously?
A) Ag + Au ³⁺ B) Pb + Co ²⁺ C) Ni + Al ³⁺ D) Zn + Ca ²⁺
18. Which element below can be used to replace chromium from its compound Cr ₂ O ₃ ?
A) Cu B) Pb C) Sn D) Al
19. According to Reference Table J, which species can reduce Cr ³⁺ ions?
A) Fe ²⁺ B) Sn ²⁺ C) Al D) Ni
20. According to Reference Table J, which metal will react with 1 M PbCl ₂ ?
A) Au(s) B) Ag(s)
C) Co(s) D) Cu(s)