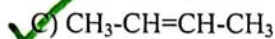
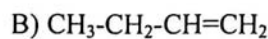
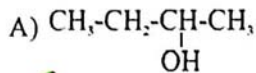
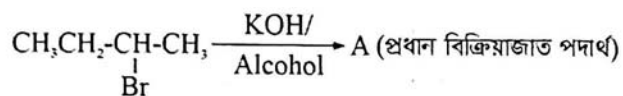


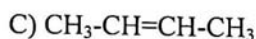
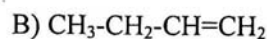
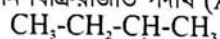
Major product (A) is -



D) No reaction will occur

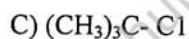
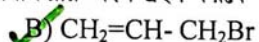
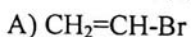


প্রধান বিক্রিয়াজাত পদার্থ (A) হল -

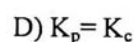
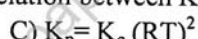
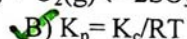
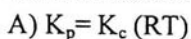


D) কোন বিক্রিয়া হবে না

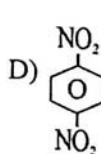
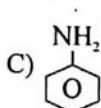
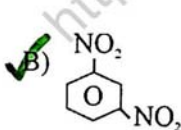
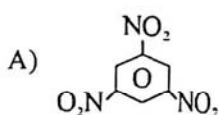
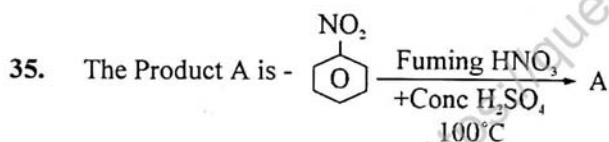
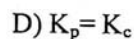
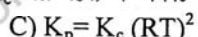
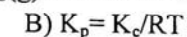
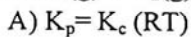
33. Which of the following undergo $\text{S}_{\text{N}}2$ reaction -
নিম্নলিখিত কোন যৌগটি $\text{S}_{\text{N}}2$ বিক্রিয়ায় অংশ গ্রহণ করবে -



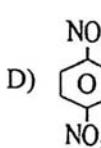
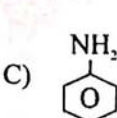
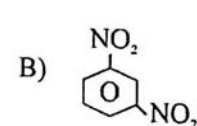
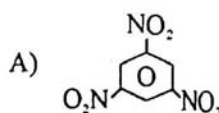
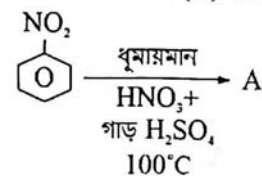
34. For the reaction $2\text{SO}_2(\text{g}) + \text{O}_2(\text{g}) \rightleftharpoons 2\text{SO}_3(\text{g})$. The relation between K_p and K_c is -

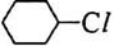
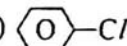
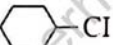
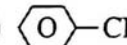


$2\text{SO}_2(\text{g}) + \text{O}_2(\text{g}) \rightleftharpoons 2\text{SO}_3(\text{g})$ - বিক্রিয়াটির ক্ষেত্রে K_p ও K_c এর মধ্যে সম্পর্কটি হল -

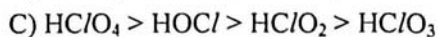
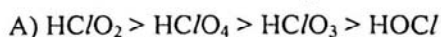


বিক্রিয়াজাত পদার্থ (A) হল -

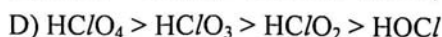
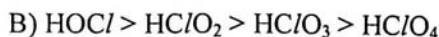
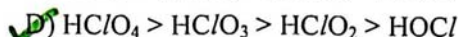
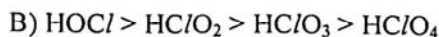
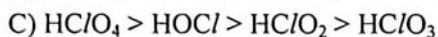
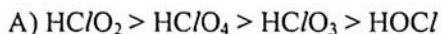


36. Smallest Aldose is -
 A) Threose B) Ribose C) Glucose ☒ D) Glyceraldehyde
 সর্বাপেক্ষা ক্ষুদ্র অ্যালডোজটি হল-
 A) থ্রিওজ B) রাইবোজ C) গ্লুকোজ D) গ্লিসারালডিহাইড
37. Which one is non-essential amino acid -
 A) Valine B) Leucine C) Lysine ☒ D) Alanine
 নিম্নলিখিত কোনটি অপরিহার্য অ্যামাইনো অ্যাসিড নয়
 A) ভ্যালিন B) লিউসিন C) লাইসিন D) অ্যালানিন
38. The packing capacity of the unit cell of fcc is-
 A) $\pi/3$ B) $\pi/6$ C) $\sqrt{3}\pi/8$ ☒ D) $\sqrt{2}\pi/6$
 fcc একক কোশের প্যাকিং দক্ষতা হল-
 A) $\pi/3$ B) $\pi/6$ C) $\sqrt{3}\pi/8$ D) $\sqrt{2}\pi/6$
39. Which of the following will give the precipitate of AgCl when reacts with AgNO₃?
 A) CH₃Cl ☒ B) PhCH₂Cl C) -Cl D) -Cl
 নিম্নলিখিত কোন যৌগটি AgNO₃ এর সঙ্গে বিক্রিয়ায় AgCl এর সাদা অধঃক্ষেপ উৎপন্ন করবে?
 A) CH₃Cl B) PhCH₂Cl C) -Cl D) -Cl
40. What is the hybridization state of the central atom I in I₃⁻?
 A) sp³ B) dsp² C) sp³d² ☒ D) sp³d
 I₃⁻ আয়নে কেন্দ্রীয় পরমাণু I এর সংকরায়ন অবস্থা হল-
 A) sp³ B) dsp² C) sp³d² D) sp³d
41. Which of the following is not paramagnetic?
 A) N₂⁺ ☒ B) Li₂ C) O₂ D) H₂⁺
 নিম্নলিখিত কোনটি পরাচৌম্বকীয় নয়?
 A) N₂⁺ B) Li₂ C) O₂ D) H₂⁺
42. In which of the following compound has the lowest degree of ionic character-
 A) MgCl₂ B) NaCl ☒ C) AlCl₃ D) CaCl₂
 নিম্নলিখিত কোন যৌগটির ক্ষেত্রে আয়নীয় চরিত্র সব থেকে কম?
 A) MgCl₂ B) NaCl C) AlCl₃ D) CaCl₂
43. Which metal is used for galvanization?
 A) Pb B) Cr ☒ C) Cu D) Zn
 নিম্নলিখিত কোন ধাতুটি গ্যালভানাইজেশনের ক্ষেত্রে ব্যবহৃত হয়?
 A) Pb B) Cr C) Cu D) Zn

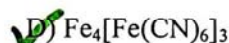
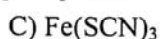
44. The correct order of acidity is-



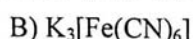
নিম্নলিখিত কোনটি অম্লতার সঠিক ক্রম-



45. Which of the following compound is formed in the precipitate of Prussian Blue?

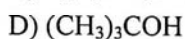


প্রশিয়ান ব্লু অধঃক্ষেপে নিম্নলিখিত কোন যৌগটি উৎপন্ন হয়-



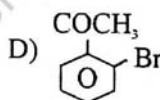
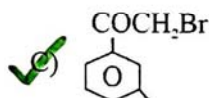
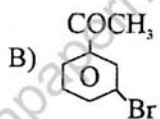
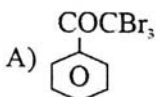
46. Which of the following alcohol does not react with Lucas reagent at room temperature?

নিম্নলিখিত কোন অ্যালকোহলটি ঘরের উষ্ণতায় লুকাস বিকারকের সঙ্গে বিক্রিয়ায় অংশগ্রহণ করে না?

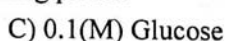
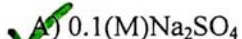


47. Which of the following compound is formed when acetophenone reacts with Br_2 in acidic medium?

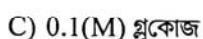
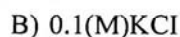
নিম্নলিখিত কোন যৌগটি উৎপন্ন হয় যখন অ্যাসিটোফেনন আম্লিক মাধ্যমে Br_2 এর সঙ্গে বিক্রিয়া করে-



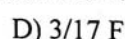
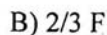
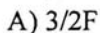
48. Which one of the following solution has highest boiling point?



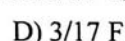
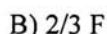
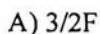
নিম্নলিখিত কোন দ্রবণটির স্ফুটনাঙ্ক সর্বাধিক -



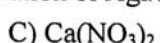
49. To produce 18g Al (Atomic wt. of Al = 27) from fused Al_2O_3 by electrolysis, the amount of current required-



গলিত Al_2O_3 থেকে তড়িৎ বিশ্লেষণ প্রক্রিয়ায় 18g Al (Al এর পারমানবিক ভর = 27) প্রস্তুত করতে প্রয়োজনীয় তড়িৎের পরিমাণ-



50. Which of the following is most active for the coagulation of AgI/I^- sol?



নিম্নলিখিত কোন যৌগটি AgI/I^- সলের তঞ্চনের জন্য সর্বাধিক সক্রিয় বা উপযুক্ত?

