ꯄꯥꯎꯆꯦ ꯑꯁꯤꯗ ꯐꯣꯡꯖꯔꯤꯕ ꯋꯥꯔꯦꯡꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜ, ꯃꯤꯠꯌꯦꯡ ꯑꯏꯕ ꯃꯁꯥ ꯃꯁꯥꯒꯤꯅꯤ꯫ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜꯂꯣꯟ ꯑꯃꯁꯨꯡ ꯃꯤꯠꯌꯦꯡꯒ ꯊꯣꯏꯗꯣꯛꯅ ꯃꯔꯤ ꯂꯩꯅꯗꯦ꯫

IMPHAL, WEDNESDAY, MARCH 9, 2022 ꯌꯨꯝꯁꯀꯩꯁ, ꯂꯝꯇꯥꯒꯤ 7 ꯅꯤ ꯄꯥꯟꯕ, ꯃꯥꯂꯤꯌꯥ ꯀꯨꯝꯁꯤꯡ 3419 obT\ꯂꯩ ꯃꯀꯩꯋ꯭ꯀ 2 ꯑꯦꯗꯤꯇꯣꯔꯤꯌꯦꯜ HUEIYEN LANPAO ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ
ꯌꯨꯝꯁꯀꯩꯁ, ꯃꯥꯔꯆ 9, 2022, ꯏꯝꯐꯥꯜ
13 ꯁꯨꯕ ꯆꯍꯤ, 316 ꯁꯨꯕ ꯃꯁꯤꯡ
ꯑꯣꯄꯔꯦꯁꯟꯗꯤ ꯃꯥꯏ ꯄꯥꯛꯈꯤ
ꯑꯅꯥꯕꯗꯤ ꯁꯤꯈꯤ
ꯂꯩꯕꯥꯛꯁꯤꯒꯤ ꯄꯥꯔꯂꯤꯌꯥꯃꯦꯟꯠꯀꯤ ꯌꯥꯎꯅ ꯁ꯭ꯇꯦꯠ ꯑꯃꯁꯨꯡ ꯌꯨꯅꯤꯌꯟ
ꯇꯦꯔꯤꯇꯣꯔꯤꯁꯤꯡꯒꯤ ꯂꯦꯖꯤꯁꯂꯦꯇꯤꯚ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤꯒꯤ ꯃꯤꯈꯜꯁꯤꯡꯒꯤ
ꯑꯣꯏꯕ ꯊꯧꯕꯨꯁꯤ ꯏꯂꯦꯛꯁꯟ ꯀꯃꯤꯁꯟ ꯑꯣꯐ ꯏꯟꯗꯤꯌꯥ (ꯏ ꯁꯤ ꯑꯥꯏ) ꯅꯤ꯫
ꯃꯁꯤꯃꯛꯅ ꯂꯩꯕꯥꯛꯁꯤꯒꯤ ꯀꯟꯁꯇꯤꯇ꯭ꯌꯨꯁꯟꯅ ꯑꯃꯁꯨꯡ ꯔꯤꯄ꯭ꯔꯖꯦꯟꯇꯦꯁꯟ
ꯑꯣꯐ ꯄꯤꯄꯜꯁ ꯑꯦꯛꯠ, 1950 ꯑꯃꯗꯤ 1951ꯒꯤ ꯄ꯭ꯔꯣꯚꯤꯁꯟꯁꯤꯡꯅ ꯏ
ꯁꯤ ꯑꯥꯏꯒꯤ ꯃꯊꯧ ꯁꯪꯂꯤꯕꯅꯤ, ꯃꯄꯥꯡꯒꯜ ꯍꯥꯞꯂꯤꯕꯅꯤ꯫ ꯗꯦꯃꯣꯀ꯭ꯔꯦꯁꯤꯒꯤ
ꯂꯩꯉꯥꯛꯂꯣꯟ ꯂꯤꯡꯅꯕ ꯃꯤꯍꯨꯠ ꯈꯟꯕꯒꯤ ꯊꯕꯛ-ꯊꯧꯔꯝ ꯄꯨꯝꯅꯃꯛ ꯏ ꯁꯤ ꯑꯥꯏꯗ
ꯄꯨꯜꯂꯞ ꯀꯣꯛꯊꯣꯡꯅꯔꯤꯕꯅꯤ꯫ ꯃꯁꯤꯃꯛꯅ ꯀꯃꯤꯁꯟꯅ ꯁ꯭ꯇꯦꯠ ꯑꯃꯁꯨꯡ
ꯌꯨꯅꯤꯌꯟ ꯇꯦꯔꯤꯇꯣꯔꯤꯁꯤꯡꯒꯤ ꯆꯤꯐ ꯏꯂꯦꯛꯇꯣꯔꯜ ꯑꯣꯐꯤꯁꯔ (ꯁꯤ ꯏ
ꯑꯣ) ꯁꯤꯡꯒ ꯈꯨꯠꯁꯝꯅꯗꯨꯅ ꯄꯥꯔꯂꯤꯌꯥꯃꯦꯟꯇꯔꯤ ꯑꯃꯁꯨꯡ ꯂꯦꯖꯤꯁꯂꯦꯇꯤꯚ
ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤꯁꯤꯡꯒꯤ ꯃꯤꯈꯜꯁꯤꯡ ꯄꯥꯡꯊꯣꯛꯇꯨꯅ ꯂꯥꯛꯂꯤꯕꯅꯤ꯫ ꯃꯁꯤ
ꯑꯣꯏꯔꯒꯁꯨ ꯁ꯭ꯇꯦꯠ ꯑꯃꯁꯨꯡ ꯌꯨꯅꯤꯌꯟ ꯇꯦꯔꯤꯇꯣꯔꯤꯁꯤꯡꯒꯤ ꯃꯤꯈꯜꯒꯤ
ꯊꯕꯛꯁꯤꯡꯗꯤ ꯃꯥꯒꯤ ꯃꯥꯒꯤ ꯁꯤ ꯏ ꯑꯣ ꯑꯃꯁꯨꯡ ꯃꯍꯥꯛꯀꯤ ꯈꯨꯠꯄꯨꯅ
ꯍꯛꯊꯦꯡꯅꯅ ꯄꯥꯡꯊꯣꯛꯇꯨꯅ ꯂꯥꯛꯂꯤꯕꯅꯤ꯫ ꯍꯟꯗꯛꯀꯤ ꯃꯅꯤꯄꯨꯔꯒꯤ 12ꯁꯨꯕ
ꯁ꯭ꯇꯦꯠ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤꯒꯤ ꯃꯤꯈꯜꯗꯁꯨ ꯑꯗꯨꯃꯉꯥꯏ꯫ ꯁꯤ ꯏ ꯑꯣ, ꯃꯅꯤꯄꯨꯔꯒꯤ
ꯀꯥꯡꯕꯨꯅ ꯑꯔꯥꯡꯐꯝ ꯑꯣꯏꯗꯨꯅ ꯄꯥꯡꯊꯣꯛꯈ꯭ꯔꯤꯕꯅꯤ꯫ ꯑꯗꯨꯅ ꯃꯤꯈꯜꯁꯤꯒꯤ
ꯇꯦꯛꯆꯥꯛ ꯄꯨꯝꯅꯃꯛ ꯂꯥꯞꯅ ꯂꯩꯕ ꯏ ꯁꯤ ꯑꯥꯏ ꯑꯃꯁꯨꯡ ꯅꯛꯅ ꯂꯩꯔꯤꯕ ꯁꯤ ꯏ
ꯑꯣ, ꯃꯅꯤꯄꯨꯔꯗ ꯅꯝꯁꯤꯟꯐꯝ ꯊꯣꯛꯏ꯫ ꯃꯔꯝꯗꯤ ꯄꯥꯡꯊꯣꯛꯈ꯭ꯔꯤꯕ ꯃꯤꯈꯜꯗꯨ
ꯀꯔꯤ ꯑꯣꯏꯈ꯭ꯔꯕꯒꯦ? ꯁꯨꯞꯅꯇꯒꯤ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ ꯀꯟꯁꯇꯤꯇ꯭ꯌꯨꯑꯦꯟꯁꯤ
50 ꯈꯛꯇꯅꯤ꯫ ꯃꯤꯈꯜ ꯄꯥꯡꯊꯣꯛꯃꯤꯟꯅꯔꯤꯕꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯌꯦꯡꯂꯕꯁꯨ
ꯁꯦꯒꯃꯦꯟꯠ ꯑꯃꯗ ꯂꯝꯕꯥ ꯇꯧꯅꯕ ꯃꯤꯔꯦꯞꯁꯤꯡ ꯃꯁꯤꯡ ꯃꯅꯤꯄꯨꯔꯅ ꯍꯟꯊꯈꯤ꯫
ꯍꯥꯏꯕꯗꯤ ꯃꯤꯈꯜꯒꯤ ꯄꯣꯠꯂꯨꯝ ꯃꯌꯦꯡ ꯇꯥꯈꯤ꯫ ꯃꯁꯤꯒꯤ ꯃꯊꯛꯇ ꯁꯤꯠ
60 ꯈꯛꯇꯃꯛ ꯂꯩꯕꯁꯤꯁꯨ ꯇꯥꯡꯀꯛ ꯑꯅꯤ ꯊꯣꯛꯅ ꯄꯥꯡꯊꯣꯛꯈ꯭ꯔꯤꯕꯅꯤ꯫
ꯃꯁꯤꯅ ꯁꯤꯀ꯭ꯌꯨꯔꯤꯇꯤ ꯗꯤꯄ꯭ꯂꯣꯏꯃꯦꯟꯠꯗ, ꯄꯣꯜꯂꯤꯡ ꯄꯔꯁꯅꯦꯜꯁꯤꯡꯗ
ꯑꯃꯁꯨꯡ ꯏ ꯚꯤ ꯑꯦꯝ ꯑꯝꯗꯤ ꯚꯤ ꯚꯤ ꯄꯦꯠ ꯃꯦꯁꯤꯟꯁꯤꯡꯗ ꯐꯥꯎꯕ ꯌꯥꯝꯅ
ꯈꯨꯗꯣꯡ ꯆꯥꯍꯟꯈ꯭ꯔꯤꯕꯅꯤ꯫ ꯌꯥꯝꯅ ꯀꯣꯝꯅ ꯇꯌꯥꯡ-ꯇꯌꯥꯡꯅ ꯄꯥꯡꯊꯣꯛꯄ ꯌꯥꯈꯤꯕ
ꯏꯂꯦꯛꯁꯟꯅꯤ꯫ ꯑꯗꯨꯕꯨ ꯑꯗꯨꯃꯛꯇꯤ ꯊꯣꯛꯈꯤꯗ꯭ꯔꯦ꯫ ꯄꯣꯜꯂꯤꯡ ꯁ꯭ꯇꯦꯁꯟ
ꯈꯔꯗ ꯄ꯭ꯔꯣꯛꯁꯤ ꯑꯃꯁꯨꯡ ꯕꯣꯒꯁ ꯚꯣꯇꯤꯡꯒꯤ ꯊꯧꯑꯣꯡ ꯆꯠꯊꯅꯈꯤ꯫ ꯃꯥꯡꯖꯤꯜ
ꯊꯥꯕ ꯄꯣꯂꯤꯇꯤꯀꯦꯜ ꯄꯥꯔꯇꯤꯁꯤꯡ ꯁꯧꯒꯠꯅꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯅ ꯕꯨꯊ ꯀꯦꯞꯆꯔ
ꯇꯧꯅꯈꯤ꯫ ꯏ ꯚꯤ ꯑꯦꯝ ꯃꯦꯁꯤꯟꯁꯤꯡ ꯁꯤꯡꯀꯨꯞ ꯁꯥꯅ ꯌꯥꯟꯈꯥꯏꯗꯨꯅ ꯊꯨꯒꯥꯏꯕ
ꯌꯥꯎꯅꯈꯤ꯫ ꯃꯁꯤꯃꯛꯅ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ 28, 2022ꯗ ꯄꯥꯡꯊꯣꯛꯈꯤꯕ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ
ꯀꯟꯁꯇꯤꯇ꯭ꯌꯨꯑꯦꯟꯁꯤ 38ꯒꯤ ꯐꯔꯁꯠ ꯐꯦꯖꯒꯤ ꯃꯤꯈꯜ ꯃꯇꯨꯡꯗ ꯄꯣꯜꯂꯤꯡ
ꯁ꯭ꯇꯦꯁꯟ 12ꯒꯤ ꯔꯤ-ꯄꯣꯜ ꯄꯥꯡꯊꯣꯛꯈꯤ꯫
ꯑꯗꯨꯕꯨ ꯑꯍꯥꯟꯕ ꯇꯥꯡꯀꯛꯀꯤ ꯃꯤꯈꯜꯗ ꯊꯣꯛꯈ꯭ꯔꯤꯕ ꯊꯧꯗꯣꯛꯁꯤꯡꯁꯤꯅ
ꯃꯅꯤꯄꯨꯔꯒꯤ ꯏꯂꯦꯛꯁꯟꯒꯤ ꯑꯍꯥꯟꯕ ꯑꯃꯁꯨꯡ ꯑꯔꯣꯏꯕ ꯊꯧꯗꯣꯛꯁꯤꯡ
ꯑꯣꯏꯈꯤꯗꯦ꯫ ꯃꯥꯔꯆ 5, 2022ꯗ ꯄꯥꯡꯊꯣꯛꯈꯤꯕ ꯑꯅꯤꯁꯨꯕ ꯑꯃꯁꯨꯡ ꯑꯔꯣꯏꯕ
ꯐꯦꯖꯒꯤ ꯃꯤꯈꯜꯗꯗꯤ ꯑꯃꯨꯛꯀ ꯍꯦꯟꯅ ꯁꯥꯊꯤꯔꯛꯈꯤ꯫ 47-ꯀꯥꯔꯣꯡ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ
ꯀꯟꯁꯇꯤꯇ꯭ꯌꯨꯑꯦꯟꯁꯤꯒꯤ ꯄꯣꯜꯂꯤꯡ ꯁ꯭ꯇꯦꯁꯟ ꯅꯝꯕꯔ 49 ꯉꯝꯖꯨ ꯚꯤꯂꯦꯖꯒꯤ
ꯌꯨ ꯖꯦ ꯕꯤ ꯁ꯭ꯀꯨꯜꯗ ꯍꯥꯡꯕ ꯄꯣꯜꯂꯤꯡ ꯁ꯭ꯇꯦꯁꯟꯗꯒꯤ ꯏ ꯚꯤ ꯑꯦꯝ ꯂꯥꯛꯂꯒ
ꯆꯦꯟꯅꯕ ꯍꯣꯠꯅꯕꯅꯤ ꯍꯥꯏꯕ ꯃꯤꯑꯣꯏ ꯑꯅꯤ ꯁꯦꯟꯇ꯭ꯔꯦꯜ ꯏꯟꯗꯁꯇ꯭ꯔꯤꯌꯦꯜ
ꯁꯤꯀ꯭ꯌꯨꯔꯤꯇꯤ ꯐꯣꯔꯁ (ꯁꯤ ꯑꯥꯏ ꯑꯦꯁ ꯑꯦꯐ) ꯀꯤ ꯄꯔꯁꯅꯦꯜꯁꯤꯡꯅ ꯀꯥꯞꯄꯗ
ꯃꯤꯑꯣꯏ ꯑꯃ ꯁꯤꯈꯤ, ꯑꯃꯅ ꯁꯣꯛꯈꯤ꯫ ꯚꯣꯠ ꯊꯥꯗꯅꯕ ꯍꯧꯒꯗꯕ ꯄꯨꯡꯐꯝꯒ
ꯏꯔꯥꯞ-ꯂꯥꯞꯅꯗꯅ ꯋꯥꯡꯖꯤꯡ ꯇꯦꯟꯊꯥ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ ꯀꯟꯁꯇꯤꯇ꯭ꯌꯨꯑꯦꯟꯁꯤꯗ
ꯃꯁꯥꯒꯤ ꯆꯍꯤ 25 ꯔꯣꯝꯗ ꯉꯥꯏꯔꯤꯕ ꯅꯍꯥ ꯑꯃ ꯅꯣꯡꯃꯩꯅ ꯀꯥꯞꯇꯨꯅ ꯍꯥꯠꯈꯤ꯫
ꯌꯨꯝ ꯈꯔ ꯃꯩ ꯊꯥꯈꯤ, ꯈꯔꯅ ꯁꯤꯗꯣꯛꯈꯤ꯫ ꯒꯥꯔꯤ ꯃꯆꯥ ꯑꯃꯁꯨꯡ ꯑꯆꯧꯕ ꯈꯔꯁꯨ
ꯇꯥꯡꯒꯣꯏ ꯑꯣꯟꯈꯤ꯫ ꯑꯄꯨꯟꯕ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ ꯁꯦꯒꯃꯦꯟꯠ 22ꯒꯤ ꯄꯣꯜꯂꯤꯡ
ꯁ꯭ꯇꯦꯁꯟꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗꯒꯤ 12ꯒꯤ ꯏ ꯚꯤ ꯑꯦꯝꯁꯤꯡ ꯊꯨꯒꯥꯏꯗꯨꯅ ꯑꯃꯥꯡ-ꯑꯇꯥ
ꯊꯣꯛꯍꯟꯈꯤ꯫ ꯃꯤꯈꯜ ꯄꯥꯡꯊꯣꯛꯈꯤꯕ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ ꯀꯟꯁꯇꯤꯇ꯭ꯌꯨꯑꯦꯟꯁꯤ
ꯄꯨꯝꯅꯃꯛꯇ ꯄꯥꯛ ꯁꯟꯅ ꯍꯦꯛꯇꯃꯛ ꯃꯄꯨ ꯄꯥꯟꯗꯕꯗꯧꯅ ꯊꯣꯛꯈꯤꯕꯃꯛ
ꯅꯠꯇ꯭ꯔꯕꯁꯨ ꯊꯣꯛꯍꯟꯅꯤꯡꯗꯕ ꯑꯃꯁꯨꯡ ꯄꯥꯝꯗꯕ ꯃꯤꯁꯤ-ꯃꯤꯅꯥ ꯌꯥꯎꯕ
ꯊꯧꯗꯣꯛꯁꯤꯡꯗꯤ ꯊꯣꯛꯈꯤ ꯍꯥꯏꯕꯅꯤ꯫ ꯊꯧꯑꯣꯡꯁꯤꯗꯤ ꯑꯣꯄꯔꯦꯁꯟ ꯃꯥꯏ
ꯄꯥꯛꯅ ꯄꯥꯡꯊꯣꯛꯂꯦ, ꯑꯅꯥꯕꯗꯤ ꯁꯤꯔꯦ ꯍꯥꯏꯕꯒꯤ ꯊꯧꯗꯧꯗꯨꯅꯤ꯫ ꯃꯁꯤ ꯍꯥꯏ
ꯍꯥꯏꯗꯨꯅ ꯏ ꯁꯤ ꯑꯥꯏ ꯑꯃꯁꯨꯡ ꯁꯤ ꯏ ꯑꯣ, ꯃꯅꯤꯄꯨꯔꯅ ꯃꯤꯈꯜ ꯑꯁꯤꯒꯤꯗꯃꯛ
ꯂꯧꯈꯠꯈ꯭ꯔꯤꯕ ꯊꯧꯔꯥꯡꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯄꯥꯡꯊꯣꯛꯈ꯭ꯔꯤꯕ ꯊꯕꯛ ꯄꯨꯝꯅꯃꯛ
ꯎꯠꯇ ꯘꯤ ꯍꯩꯖꯤꯟꯕꯒꯤ ꯋꯥꯐꯝꯗꯤ ꯅꯠꯇꯦ꯫ ꯍꯣꯠꯅꯗꯦ, ꯊꯋꯥꯏ ꯌꯥꯎꯅ ꯇꯧꯈꯤꯗꯦ
ꯍꯥꯏꯕ ꯅꯠꯇꯦ꯫ ꯍꯣꯠꯅꯈꯤ, ꯇꯧꯈꯤ ꯑꯗꯨꯕꯨ ꯃꯤꯁꯤ-ꯃꯤꯅꯥ ꯌꯥꯎꯈꯤ, ꯑꯀꯥꯏ
ꯑꯇꯣꯏ ꯊꯣꯛꯍꯟꯈꯤ꯫ ꯑꯍꯥꯟꯕ ꯐꯦꯖꯗꯧꯅ ꯁꯦꯀꯦꯟꯗ ꯐꯦꯖꯗꯁꯨ ꯔꯤ-ꯄꯣꯜꯒꯤ
ꯃꯊꯧ ꯇꯥꯍꯟꯈꯤ ꯍꯥꯏꯕꯒꯤ ꯋꯥꯅꯤ꯫ ꯊꯧꯑꯣꯡꯁꯤꯗꯤ ꯊꯕꯛꯁꯨ ꯋꯥꯅ ꯄꯥꯡꯊꯣꯛꯄ
ꯑꯗꯨꯒ ꯃꯤꯋꯥꯁꯨ ꯇꯥꯕ, ꯂꯨꯜꯂꯨꯞꯁꯨ ꯀꯥꯕ, ꯋꯥꯁꯥꯁꯨ ꯆꯥꯕ ꯍꯥꯏꯕꯗꯨꯒꯤ ꯐꯤꯚꯝꯅꯤ
ꯍꯥꯏꯕꯅꯤ꯫ ꯊꯣꯛꯈ꯭ꯔꯤꯕ ꯊꯧꯗꯣꯛꯁꯤꯡꯗꯨ ꯏ ꯁꯤ ꯑꯥꯏ ꯑꯃꯁꯨꯡ ꯁꯤ ꯏ ꯑꯣ,
ꯃꯅꯤꯄꯨꯔꯅ ꯊꯧꯑꯣꯏꯅ ꯏꯟꯁꯤꯜꯂꯒ ꯊꯣꯛꯍꯟꯕꯅꯤ ꯍꯥꯏꯕꯁꯨ ꯅꯠꯇꯦ꯫ ꯑꯗꯨꯕꯨ
ꯂꯧꯈꯠꯈꯤꯕ, ꯄꯥꯡꯊꯣꯛꯈꯤꯕ ꯊꯕꯛꯇ ꯍꯪꯒꯥꯝ ꯆꯥꯝꯅꯕ ꯄꯣꯜꯂꯥꯡꯕꯨ ꯆꯦꯡꯖꯥꯃꯨꯛ
ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯔꯒ ꯆꯦꯡ ꯆꯥꯝꯕꯒꯤ ꯊꯧꯑꯣꯡ ꯆꯠꯊꯈꯤꯕ꯭ꯔꯥ ꯍꯥꯏꯕꯁꯤꯃꯗꯤ
ꯍꯪꯗꯕ ꯌꯥꯔꯣꯏ꯫ ꯑꯗꯨꯕꯨ ꯍꯥꯏꯅ-ꯍꯥꯏꯅꯅ ꯍꯧꯖꯤꯛꯄꯨꯗꯤ ꯍꯟꯗꯣꯛ-ꯍꯟꯖꯤꯟ
ꯇꯧꯅꯕ ꯈꯔ ꯌꯥꯔꯕꯁꯨ ꯄꯥꯡꯊꯣꯛꯈ꯭ꯔꯤꯕ ꯃꯤꯈꯜꯁꯤꯒꯤ ꯚꯣꯠ ꯃꯁꯤꯡ ꯊꯤꯒꯗꯕ
ꯅꯨꯃꯤꯠ ꯅꯛꯁꯤꯜꯂꯛꯂꯦ꯫ ꯃꯁꯤꯡ ꯊꯤꯕ ꯂꯣꯏꯗꯨꯅ ꯂꯥꯎꯊꯣꯛꯂꯕꯗꯤ ꯏꯂꯦꯛꯁꯟ
ꯄ꯭ꯔꯣꯁꯦꯁꯁꯨ ꯄꯨꯝꯂꯣꯏ ꯂꯣꯏꯁꯤꯜꯂꯒꯗꯕꯅꯤ꯫ ꯃꯇꯨꯡꯗꯗꯤ ꯊꯣꯔꯛꯇꯅꯕ ꯍꯣꯠꯅꯧ,
ꯍꯟꯗꯛꯀꯤ ꯑꯁꯤꯅ ꯄꯥꯔꯥ ꯑꯣꯏꯍꯧ ꯍꯥꯏꯕꯅꯤ꯫ ꯃꯤꯈꯜꯒꯤ ꯊꯕꯛꯇ ꯌꯩꯈꯥꯏ
ꯊꯤꯟꯒꯥꯏꯔꯛꯂꯕꯗꯤ ꯀꯗꯥꯏ ꯐꯥꯎꯕ ꯆꯩꯔꯥꯛ ꯄꯤꯕ ꯌꯥꯏ ꯍꯥꯏꯕꯗꯨꯁꯨ ꯈꯪꯍꯜꯂꯨ꯫

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ ꯂꯤꯇꯔꯦꯔꯤ ꯀ꯭ꯋꯤꯖ - 37
ꯃꯊꯛꯇ ꯄꯤꯔꯤꯕ ꯋꯥꯍꯪꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯄꯥꯎꯈꯨꯝ ꯃꯥꯔꯆ 15, ꯂꯩꯕꯥꯛꯄꯣꯛꯄ
ꯅꯨꯃꯤꯠꯀꯤ ꯑꯌꯨꯛ ꯄꯨꯡ 11 ꯐꯥꯎꯕꯒꯤ ꯃꯅꯨꯡꯗ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯑꯣꯐꯤꯁꯇ
nTtrBg I-meL hueiyenliteraryquiz@gmail.com sid
ꯃꯦꯜ ꯑꯣꯏꯅ ꯊꯥꯕꯤꯔꯛꯄ ꯌꯥꯒꯅꯤ꯫ ꯄꯥꯎꯈꯨꯝ ꯄꯤꯕꯤꯔꯛꯄ/ꯊꯥꯕꯤꯔꯛꯄ ꯃꯇꯝꯗ
ꯃꯤꯡ, ꯂꯩꯐꯝ, ꯃꯍꯩꯒꯤ ꯊꯥꯛ ꯑꯃꯁꯨꯡ ꯀꯟꯇꯦꯛꯠ ꯅꯝꯕꯔ ꯃꯌꯦꯛ ꯁꯦꯡꯅ
ꯏꯕꯤꯔꯛꯎ꯫ ꯋꯥꯍꯪ ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯄꯥꯎꯈꯨꯝ ꯆꯨꯝꯅ ꯅꯠꯇ꯭ꯔꯒ ꯃꯁꯤꯡ ꯌꯥꯝꯅ
ꯆꯨꯝꯅ ꯄꯤꯕꯤꯔꯛꯄ ꯃꯤꯑꯣꯏꯁꯤꯡ ꯑꯗꯨꯗꯒꯤ ꯗ꯭ꯔꯣ ꯑꯣꯠꯆꯔꯒ ꯂꯥꯏꯕꯛ ꯐꯕ
ꯃꯤꯁꯛ ꯑꯃ ꯈꯟꯖꯒꯅꯤ꯫ ꯂꯣꯏꯅꯅ ꯈꯜꯂꯕ ꯃꯤꯁꯛ ꯑꯗꯨꯗ ꯃꯅꯥ ꯄꯤꯖꯒꯅꯤ꯫

1) ꯑꯍꯥꯟꯕ ꯑꯣꯏꯅ ꯀꯨꯝꯖꯥ 1960ꯗ ꯐꯣꯡꯕ “ꯑꯃꯥꯏꯕ” ꯍꯥꯏꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤꯒꯤ
AIb knano?

2) “ꯑꯃꯦꯔꯤꯀꯥꯒꯤ ꯏꯁꯩ” ꯍꯥꯏꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤꯒꯤ ꯑꯏꯕ ꯀꯅꯥꯅꯣ ꯑꯃꯁꯨꯡ
ꯀꯔꯝꯕ ꯃꯈꯜꯒꯤ ꯂꯥꯏꯔꯤꯛꯅꯣ?

3) “ꯃꯅꯤꯄꯨꯔꯗ ꯑꯩꯒꯤ ꯆꯍꯤ ꯑꯍꯨꯝ” ꯍꯥꯏꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤ ꯑꯣꯔꯤꯖꯤꯅꯦꯜꯗ
ꯀꯅꯥꯅ ꯏꯕ ꯂꯥꯏꯔꯤꯛꯇꯒꯤ ꯀꯅꯥꯅ ꯃꯅꯤꯄꯨꯔꯤꯗ ꯍꯟꯗꯣꯛꯄꯅꯣ?
4) “ꯋꯥꯔꯤ ꯁꯤꯡꯕꯨꯜꯂꯛꯇꯒꯤ” ꯍꯥꯏꯕ ꯑꯉꯥꯡꯒꯤ ꯑꯣꯏꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤꯒꯤ
AIb knano?
5) “ꯂꯩꯀꯪꯂꯥ” ꯍꯥꯏꯕꯁꯤꯒꯤ ꯑꯏꯕꯁꯤ ꯀꯅꯥꯅꯣ ꯑꯃꯗꯤ ꯀꯔꯝꯕ ꯃꯈꯜꯒꯤ ꯂꯥꯏꯔꯤꯛꯅꯣ?

ꯀꯝꯄ꯭ꯌꯨꯇꯤꯡꯒꯤ ꯌꯨꯝꯐꯝ ꯑꯁꯤ ꯑꯟꯙ ꯒꯦꯠꯁ ꯑꯃꯁꯨꯡ OR ꯒꯦꯠꯁꯀꯨꯝꯕ, ꯂꯣꯖꯤꯛ ꯑꯣꯄꯔꯦꯁꯟꯁꯤꯡꯅ ꯑꯣꯏ꯫ ꯑꯁꯤꯒꯨꯝꯕ ꯑꯣꯄꯔꯦꯁꯟꯁꯤꯡꯁꯤ ꯄꯥꯡꯊꯣꯛꯅꯕꯒꯤꯗꯃꯛ ꯏꯂꯦꯛꯇ꯭ꯔꯣꯟꯁꯤꯡꯒꯤ ꯃꯇꯦꯡ ꯗꯔꯀꯥꯔ
ꯑꯣꯏꯔꯤꯕ, ꯁꯦꯃꯤꯀꯟꯗꯛꯇꯔ-ꯕꯦꯖꯗ ꯏꯟꯇꯤꯒ꯭ꯔꯦꯇꯦꯗ ꯁꯔꯀꯤꯠ
(IC) ꯁꯤꯡꯅ ꯍꯧꯖꯤꯛ ꯑꯩꯈꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯇꯦꯛꯅꯣꯂꯣꯖꯤꯁꯤꯡꯒꯤ
ꯌꯥꯡꯂꯦꯟ ꯁꯔꯨ ꯑꯣꯏ꯫ ꯑꯗꯨꯕꯨ ꯑꯅꯧꯕ ꯑꯃ ꯑꯣꯏꯅ, ꯍꯧꯖꯤꯛ
ꯆꯥꯎꯁꯤꯜꯂꯛꯄꯁꯤꯡꯅ ꯑꯊꯣꯠꯄ ꯔꯣꯕꯣꯠꯁꯤꯡ ꯑꯃꯁꯨꯡ
ꯍꯛꯆꯥꯡꯗ ꯅꯞꯁꯤꯟꯕ ꯅꯠꯇ꯭ꯔꯒ ꯈꯨꯗꯥꯡꯗ ꯁꯤꯕ ꯌꯥꯕ
ꯏꯂꯦꯛꯇ꯭ꯔꯣꯅꯤꯛ ꯗꯤꯚꯥꯏꯁꯁꯤꯡꯅ ꯄꯨꯛꯅꯤꯡ ꯂꯨꯞꯁꯤꯟꯕꯒꯤ
ꯆꯥꯡ ꯍꯦꯟꯒꯠꯂꯛꯂꯤ꯫ ꯑꯗꯨꯝ ꯑꯣꯏꯅꯃꯛ, ꯑꯁꯤꯒꯨꯝꯕ
ꯁꯤꯁꯇꯝꯁꯤꯡꯁꯤ ꯂꯤꯔꯕ ꯏꯂꯦꯛꯇ꯭ꯔꯣꯅꯤꯛ ꯗꯤꯚꯥꯏꯁꯁꯤꯡꯒ
ꯂꯣꯏꯅꯅ ꯀꯟꯇ꯭ꯔꯣꯜ ꯀꯧꯏ꯫ ꯑꯗꯨꯕꯨ, ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤ
Aof cikato Pritzker School of Melecular

Engineering ꯒꯤ ꯊꯤꯖꯤꯟ ꯂꯨꯞ ꯑꯃꯅ ꯑꯍꯥꯟꯕꯒꯤ ꯑꯣꯏꯅ
ꯃꯍꯤ ꯑꯣꯏꯕ ꯀ꯭ꯔꯤꯁꯇꯜ ꯑꯃꯕꯨ ꯂꯣꯖꯤꯛ ꯑꯣꯄꯔꯦꯁꯟꯁꯤꯡ
ꯄꯥꯡꯊꯣꯛꯍꯟꯅꯕꯒꯤꯗꯃꯛ ꯗꯔꯀꯥꯔ ꯑꯣꯏꯔꯤꯕ ꯃꯆꯥꯛꯁꯤꯡꯗꯨ
ꯗꯤꯖꯥꯏꯟ ꯇꯧꯕꯒꯤ ꯃꯑꯣꯡꯗꯨ ꯎꯠꯄ ꯉꯝꯈ꯭ꯔꯦ꯫
“ꯁꯥꯏꯟꯁ ꯑꯦꯗꯚꯥꯟꯁꯦꯁ” (ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ
23, 2022) ꯗ ꯐꯣꯡꯗꯣꯔꯛꯈꯤꯕ ꯄꯥꯎꯗꯝ
ꯑꯃꯒꯤ ꯃꯇꯨꯡꯏꯟꯅ, ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯁꯤꯅ
ꯄꯨꯊꯣꯔꯛꯂꯤꯕ ꯑꯁꯤꯅ ꯍꯧꯖꯤꯛꯃꯛꯀꯤ
ꯑꯣꯏꯅ ꯇ꯭ꯔꯥꯟꯁꯤꯁꯇꯔꯁꯤꯡ ꯅꯠꯇ꯭ꯔꯒ
ꯀꯝꯄ꯭ꯌꯨꯇꯔꯁꯤꯡ ꯁꯥꯕ ꯉꯝꯗ꯭ꯔꯕꯁꯨ, ꯃꯈꯣꯏꯒꯤ ꯇꯦꯛꯅꯤꯛ ꯑꯁꯤꯅ ꯁꯦꯟꯁꯤꯡ, ꯀꯝꯄ꯭ꯌꯨꯇꯤꯡ ꯑꯃꯁꯨꯡ ꯔꯣꯕꯣꯇꯤꯛꯁꯇ ꯑꯅꯧꯕ ꯐꯪꯛꯁꯟꯁꯤꯡ ꯄꯥꯡꯊꯣꯛꯄ ꯉꯝꯕ ꯗꯤꯚꯥꯏꯁꯤꯡ ꯁꯦꯝꯒꯠꯅꯕꯒꯤ ꯂꯝꯕꯤꯗꯤ ꯌꯥꯠꯄ ꯉꯝꯂꯦ ꯍꯥꯏꯔꯤ꯫ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯂꯔ ꯑꯦꯟꯖꯤꯅꯤꯌꯔꯤꯡꯗ Liew Family Professor ꯑꯃꯁꯨꯡ ꯑꯔꯒꯣꯟ ꯅꯦꯁꯅꯜ ꯂꯦꯕꯣꯔꯦꯇꯔꯤꯗ ꯁꯦꯅꯤꯌꯔ ꯁꯥꯏꯟꯇꯤꯁꯠ ꯑꯣꯏꯔꯤꯕ Juan ꯗꯦ Pablo ꯅ ꯐꯣꯡꯗꯣꯛꯄꯒꯤ ꯃꯇꯨꯡꯏꯟꯅ, ꯒꯦꯠꯁ, ꯑꯦꯝꯄ꯭ꯂꯤꯐꯥꯌꯔ ꯑꯃꯁꯨꯡ ꯀꯟꯗꯛꯇꯔꯁꯤꯡꯒꯨꯝꯕ ꯁꯔꯀꯤꯠ ꯑꯃꯒꯤ ꯕꯤꯜꯗꯤꯡ ꯕ꯭ꯂꯣꯛꯁꯤꯡꯕꯨ ꯁꯦꯝꯒꯠꯄ ꯉꯝꯂꯛꯄ ꯍꯥꯏꯕꯒꯤ ꯋꯥꯍꯟꯊꯣꯛꯇꯤ ꯃꯈꯣꯏꯁꯤꯕꯨ ꯄꯨꯟꯁꯤꯜꯍꯜꯂꯒ ꯍꯦꯟꯅ ꯀꯝꯄ꯭ꯂꯦꯛꯁ ꯑꯣꯏꯕ ꯑꯣꯄꯔꯦꯁꯟꯁꯤꯡ ꯄꯥꯡꯊꯣꯛꯍꯟꯕ ꯉꯝꯂꯒꯅꯤ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫ ꯃꯁꯤꯃꯛ ꯌꯥꯝꯅ ꯃꯔꯨ ꯑꯣꯏꯔꯕ ꯈꯣꯡꯊꯥꯡ ꯑꯃꯅꯤ꯫ ꯀ꯭ꯔꯤꯁꯇꯜ ꯅꯠꯇ꯭ꯔꯒ ꯀ꯭ꯔꯤꯁꯠꯂꯥꯏꯟ
ꯁꯣꯂꯤꯗ ꯍꯥꯏꯕꯁꯤ ꯑꯦꯇꯝ, ꯃꯣꯂꯤꯀ꯭ꯌꯨꯜ
ꯅꯠꯇ꯭ꯔꯒ ꯑꯥꯏꯑꯣꯟꯁꯤꯡꯅ ꯌꯥꯝꯅ ꯃꯊꯪ-
ꯃꯅꯥꯎ ꯅꯥꯏꯕ ꯃꯑꯣꯡ ꯑꯃꯗ ꯁꯤꯟꯗꯣꯛꯇꯨꯅ
ꯂꯩꯔꯒ, ꯀꯔꯕꯤꯁꯇꯜ ꯂꯥꯇꯤꯁꯁꯤꯡ
ꯁꯦꯝꯕ ꯑꯃꯁꯨꯡ ꯂꯥꯇꯤꯁꯁꯤꯡꯗꯨꯅ
ꯃꯊꯪ-ꯃꯊꯪ ꯁꯝꯖꯤꯟꯅꯔꯒ ꯁꯦꯝꯕ
ꯃꯄꯪ ꯑꯣꯏꯕ ꯄꯣꯠ ꯑꯃꯅꯤ꯫ ꯑꯗꯨꯒꯤ
ꯂꯤꯀ꯭ꯋꯤꯗ ꯀ꯭ꯔꯤꯁꯇꯜ ꯍꯥꯏꯕꯁꯤꯅ
ꯏꯁꯤꯡꯒꯨꯝꯕ ꯃꯍꯤꯁꯤꯡ ꯑꯃꯁꯨꯡ
ꯁꯣꯂꯤꯗ ꯀ꯭ꯔꯤꯁꯇꯜꯁꯤꯡꯒꯤ ꯃꯔꯛꯀꯤ
ꯃꯒꯨꯟꯁꯤꯡ ꯆꯦꯟꯕ ꯁ꯭ꯇꯦꯠ ꯑꯃꯅꯤ꯫
ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯂꯤꯀ꯭ꯋꯤꯗ ꯀ꯭ꯔꯤꯁꯇꯜ
ꯑꯃꯅ ꯏꯁꯤꯡꯒꯨꯝꯅ ꯆꯦꯟꯕ ꯌꯥꯏ
ꯑꯗꯨꯒ ꯃꯁꯤꯒꯤ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯜꯁꯤꯡꯗꯨ
ꯀ꯭ꯔꯤꯁꯇꯜꯒ ꯃꯥꯟꯅꯕ ꯃꯑꯣꯡ ꯑꯃꯗ
ꯂꯩ꯫ ꯁꯥꯏꯟꯇꯤꯁꯠꯁꯤꯡ ꯑꯁꯤꯒꯨꯝꯕ
ꯇꯣꯞ-ꯇꯣꯞꯄ ꯃꯒꯨꯟꯁꯤꯡ ꯆꯦꯜꯂꯤꯕ
ꯄꯣꯠꯁꯤꯡꯗ ꯄꯨꯛꯅꯤꯡ ꯂꯨꯞꯁꯤꯜꯂꯛꯈꯤ ꯃꯔꯝꯗꯤ ꯑꯁꯤꯒꯨꯝꯕ ꯇꯣꯉꯥꯟꯕ ꯃꯒꯨꯟꯁꯤꯡꯁꯤꯕꯨ ꯑꯅꯧꯕ ꯇꯦꯛꯅꯣꯂꯣꯖꯤꯁꯤꯡꯒꯤ ꯌꯨꯝꯐꯝ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯩ꯫ ꯈꯨꯗꯝ ꯑꯣꯏꯅ, ꯍꯧꯖꯤꯛ ꯑꯩꯈꯣꯏꯅ LCD, TV, ꯁ꯭ꯃꯥꯔꯠꯐꯣꯟ ꯑꯃꯁꯨꯡ ꯂꯦꯞꯇꯣꯞꯀꯤ ꯈ꯭ꯔꯤꯟꯗ ꯂꯤꯀ꯭ꯋꯤꯗ ꯀ꯭ꯔꯤꯁꯇꯜ ꯗꯤꯁꯄ꯭ꯂꯦ (LCD) ꯎꯕ ꯉꯝꯂꯦ꯫
ꯑꯁꯤꯒꯨꯝꯕ ꯇꯣꯞ-ꯇꯣꯞꯄ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯂꯔ ꯑꯣꯔꯗꯔ ꯑꯁꯤꯅ ꯑꯣꯏꯍꯜꯂꯛꯂꯤꯕꯗꯤ, ꯑꯣꯔꯗꯔꯗ ꯔꯤꯖꯟꯁꯤꯡꯅ ꯑꯃꯒ ꯑꯃꯒ ꯊꯦꯡꯖꯤꯟꯅꯗꯨꯅ ꯃꯈꯣꯏꯒꯤ ꯂꯩꯐꯝꯁꯤꯡꯗꯨ ꯆꯨꯁꯤꯟꯅꯍꯜꯂꯛꯇꯕ ꯉꯝꯕ, ꯁꯥꯏꯟꯇꯤꯁꯠꯁꯤꯡꯅ ‘ꯇꯣꯄꯣꯂꯣꯖꯤꯀꯜ ꯗꯤꯐꯦꯛꯠꯁꯤꯡ’ ꯀꯧꯅꯔꯤꯕ ꯗꯤꯐꯦꯛꯇꯔꯁꯤꯡꯁꯤ ꯂꯤꯀ꯭ꯋꯤꯗ ꯀ꯭ꯔꯤꯁꯇꯜ ꯄꯨꯝꯅꯃꯛꯅ ꯁ꯭ꯇꯣꯠꯁꯤꯡ ꯑꯣꯏꯅ
ꯌꯥꯎꯏ꯫ ꯂꯤꯀ꯭ꯋꯤꯗ ꯀꯔꯕꯤꯁꯇꯜ ꯑꯗꯨꯅ ꯂꯦꯡꯂꯛꯄꯒ ꯑꯁꯤꯒꯨꯝꯕ ꯁ꯭ꯄꯣꯠꯁꯤꯡꯁꯨ ꯂꯦꯡꯂꯛꯏ꯫ ꯑꯁꯤꯒꯨꯝꯕ ꯁ꯭ꯄꯣꯠꯁꯤꯡ ꯑꯁꯤꯕꯨ ꯑꯩꯈꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ
ꯐꯣꯟ ꯅꯠꯇ꯭ꯔꯒ ꯂꯦꯞꯇꯣꯞꯀꯤ ꯁꯔꯀꯤꯠꯁꯤꯡꯗ ꯏꯂꯦꯛꯇ꯭ꯔꯣꯟꯁꯤꯡꯅ
ꯇꯧꯔꯤꯕ ꯃꯊꯧꯗꯨꯒ ꯃꯥꯟꯅꯕ ꯃꯑꯣꯡꯗ ꯏꯟꯐꯣꯔꯃꯦꯁꯟ ꯊꯥꯗꯣꯛ-ꯊꯥꯖꯤꯟ
ꯇꯧꯕꯗ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯒꯗ꯭ꯔꯥ ꯍꯥꯏꯕꯒꯤ ꯈꯣꯏꯔꯥꯡꯕꯁꯤ ꯊꯤꯖꯤꯜꯂꯤꯕ
ꯁꯥꯏꯟꯇꯤꯁꯠꯁꯤꯡꯗ ꯄꯣꯛꯂꯛꯈꯤ꯫ ꯑꯁꯤꯒꯨꯝ ꯗꯤꯐꯦꯛꯠꯁꯤꯡꯗꯒꯤ
ꯇꯦꯛꯅꯣꯂꯣꯖꯤ ꯑꯃ ꯁꯦꯝꯒꯠꯅꯕꯒꯤꯗꯃꯛ ꯃꯈꯣꯏꯕꯨ ꯄꯥꯜꯂꯤꯕ
ꯃꯥꯏꯀꯩꯔꯣꯝꯗ ꯄꯨꯗꯨꯅ ꯆꯠꯄ ꯉꯝꯕ ꯇꯥꯏ ꯑꯗꯨꯒ ꯃꯈꯣꯏꯒꯤ
ꯃꯆꯠꯁꯤꯕꯨ ꯂꯥꯛꯁꯤꯟꯗꯨꯅ ꯑꯄꯥꯝꯕ ꯃꯥꯏꯀꯩꯗ ꯄꯨꯕ ꯍꯥꯏꯕꯁꯤ ꯌꯥꯝꯅ
ꯂꯨꯕ ꯑꯃꯅꯤ꯫ ꯃꯥꯏꯀ꯭ꯔꯣꯁ꯭ꯀꯣꯞ ꯑꯃꯅ ꯑꯁꯤꯒꯨꯝꯕ ꯂꯤꯀ꯭ꯋꯤꯗ
ꯀ꯭ꯔꯤꯁꯇꯜ ꯑꯃꯕꯨ ꯌꯦꯡꯕ ꯃꯇꯝꯗ ꯗꯤꯐꯦꯛꯠꯁꯤꯡꯁꯤꯅ ꯃꯐꯝ
ꯑꯃꯗꯒꯤ ꯑꯇꯣꯞꯄ ꯃꯐꯝ ꯑꯃꯗ ꯍꯣꯡꯈꯤꯕꯁꯤ ꯊꯦꯡꯅꯒꯅꯤ
ꯍꯥꯏꯕ ꯗꯦ Pablo ꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫

ꯍꯧꯈꯤꯕ ꯆꯍꯤꯗ, ꯃꯇꯝꯗꯨꯗ Pritzker School of
Molecular Engineering ꯗ ꯄꯣꯁꯠ-ꯗꯣꯛꯇꯔꯦꯜ
ꯀ꯭ꯂꯣꯂꯔ ꯑꯣꯏꯈꯤꯕ Rui Zhang ꯅ ꯂꯨꯆꯤꯡꯕ ꯗꯦ
Pablo gi lebk, yunivrsiti Aof cikagogi
ꯄ꯭ꯔꯣꯐꯦꯁꯔ ꯃꯥꯔꯒꯦꯠ ꯒꯥꯔꯗꯦꯜꯒꯤ ꯂꯦꯕ ꯑꯃꯁꯨꯡ
ꯁ꯭ꯇꯥꯟꯐꯣꯔꯗꯁꯀꯤ ꯄ꯭ꯔꯣꯐꯦꯁꯔ Zev Bryant
ꯒꯤ ꯂꯦꯞꯕ ꯈꯨꯠꯁꯝꯅꯔꯒ, ꯑꯁꯤꯒꯨꯝꯕ
ꯇꯣꯄꯣꯂꯣꯖꯤꯀꯜ ꯗꯤꯐꯦꯛꯠꯁꯤꯡꯗꯨ ꯄꯥꯝꯂꯤꯕ
ꯃꯥꯏꯀꯩꯗꯨꯗ ꯆꯠꯍꯟꯕ ꯌꯥꯏ ꯍꯥꯏꯕꯗꯨ ꯎꯠꯈꯤ꯫
ꯃꯈꯣꯏꯅ ꯂꯝꯁꯤꯗ ꯍꯦꯟꯅ ꯃꯃꯨꯠ ꯇꯥꯅ ꯅꯩꯅꯔꯕ ꯃꯇꯨꯡꯗ, ꯂꯤꯀ꯭ꯋꯤꯗ ꯀ꯭ꯔꯤꯁꯠꯜꯁꯤꯡꯅ ꯀꯝꯄ꯭ꯌꯨꯇꯔ ꯑꯃꯒꯨꯝꯅ ꯑꯣꯄꯔꯦꯁꯟꯁꯤꯡ ꯄꯥꯡꯊꯣꯛꯍꯟꯕꯗ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯒꯅꯤ ꯍꯥꯏꯕꯁꯤ ꯈꯪꯂꯛꯈꯤ꯫
ꯑꯁꯨꯝꯅ ꯄꯨꯊꯣꯔꯛꯂꯤꯕ ꯗꯤꯐꯦꯛꯠꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯁꯔꯀꯤꯠ ꯑꯃꯗ ꯂꯩꯔꯤꯕ ꯏꯂꯦꯛꯇ꯭ꯔꯣꯟꯁꯤꯡꯒꯤ ꯃꯒꯨꯟꯒ ꯃꯥꯟꯅꯕ ꯀꯌꯥꯃꯨꯛ ꯂꯩ- ꯈꯣꯏꯕꯨ ꯆꯠꯍꯟꯕ ꯌꯥꯏ, ꯑꯦꯝꯄ꯭ꯂꯤꯐꯥꯏ ꯇꯧꯕ ꯌꯥꯏ ꯑꯃꯁꯨꯡ ꯇ꯭ꯔꯥꯟꯁꯤꯁꯇꯔ ꯒꯦꯠ ꯑꯃꯗ ꯇꯧꯕꯒꯨꯝꯅ ꯃꯈꯣꯏꯅ ꯆꯠꯂꯤꯕꯗꯨꯕꯨ ꯊꯤꯡꯕ ꯅꯠꯇ꯭ꯔꯒ ꯃꯈꯥ ꯇꯥꯅ ꯆꯠꯍꯟꯕ ꯌꯥꯏ; ꯃꯁꯤꯅ ꯇꯥꯛꯂꯤꯕꯗꯤ ꯃꯈꯣꯏꯕꯨ ꯍꯦꯟꯅ ꯁꯣꯐꯤꯁꯇꯤꯀꯦꯇꯦꯗ ꯑꯣꯏꯕ ꯑꯣꯄꯔꯦꯁꯟꯁꯤꯡꯗ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯏ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫

ꯀꯥꯜꯀ꯭ꯌꯨꯂꯦꯁꯟꯁꯤꯡꯅ ꯑꯁꯤꯒꯨꯝꯕ ꯁꯤꯁꯇꯝꯁꯤꯡꯁꯤ ꯀꯝꯄ꯭ꯌꯨꯇꯦꯁꯟꯒꯤ ꯊꯕꯛꯁꯤꯡꯗ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯒꯅꯤ ꯍꯥꯏꯔꯕꯁꯨ, ꯁꯣꯐꯠ ꯔꯣꯕꯣꯇꯤꯛꯁꯀꯨꯝꯕ ꯂꯝꯁꯤꯡꯗ ꯍꯦꯟꯅ ꯀꯥꯟꯅꯕ ꯃꯑꯣꯡꯗ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯕꯒꯤ ꯑꯣꯏꯊꯣꯛꯄ ꯂꯩ ꯍꯥꯏꯅ ꯍꯧꯖꯤꯛꯅ ꯍꯣꯡ ꯀꯣꯡ ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤ ꯑꯣꯐ ꯁꯥꯏꯟꯁ ꯑꯦꯟꯗ ꯇꯦꯛꯅꯣꯂꯣꯖꯤꯗ ꯑꯦꯁꯤꯁꯠꯇꯦꯟꯠ ꯄ꯭ꯔꯣꯐꯦꯁꯔ ꯑꯣꯏꯔꯤꯕ ꯖꯥꯡꯅ ꯍꯥꯏꯔꯤ꯫ ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯁꯤꯅ ꯑꯀꯟꯕ ꯙꯥꯇꯨ ꯅꯠꯇ꯭ꯔꯒ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯨꯝꯕꯅ ꯁꯥꯕꯒꯤ ꯃꯍꯨꯠꯇ, ꯑꯊꯣꯠꯄ ꯄꯣꯠꯁꯤꯡꯅ
ꯁꯥꯕ ꯔꯣꯕꯣꯠꯁꯤꯡꯗ ꯑꯀꯟꯕ
ꯃꯤꯠꯌꯦꯡ ꯊꯝꯂꯤ, ꯃꯔꯝꯗꯤ
ꯃꯈꯣꯏꯒꯤ ꯆꯤꯡꯊꯣꯛꯄ ꯑꯃꯁꯨꯡ
ꯀꯣꯟꯊꯣꯛ ꯀꯣꯟꯁꯤꯟ ꯌꯥꯕꯗꯨꯅ
ꯃꯔꯝ ꯑꯣꯏꯔꯒ, ꯑꯀꯟꯕ
ꯄꯣꯠꯁꯤꯡꯅ ꯁꯥꯕ ꯔꯣꯕꯣꯠꯁꯤꯡꯅ
ꯄꯥꯡꯊꯣꯛꯄ ꯉꯝꯗꯕ ꯊꯕꯛꯁꯤꯡ
ꯄꯥꯡꯊꯣꯛꯍꯟꯕ ꯌꯥꯒꯅꯤ꯫
ꯃꯁꯤꯒ ꯏꯔꯣꯏꯅꯅ ꯑꯁꯤꯒꯨꯝꯕ
ꯂꯤꯀ꯭ꯋꯤꯗ ꯀ꯭ꯔꯤꯁꯇꯜꯁꯤꯡ
ꯁꯤꯖꯤꯟꯅꯔꯒ ꯃꯁꯥꯒꯤ ꯑꯣꯏꯖꯕ
‘ꯊꯤꯡꯀꯤꯡ’ ꯈꯔꯃꯈꯩ ꯂꯩꯖꯕ
ꯔꯣꯕꯣꯠꯁꯤꯡ ꯁꯥꯕꯒꯤ ꯃꯪꯁꯨ ꯃꯪꯂꯤ꯫
ꯑꯇꯣꯞꯄ ꯑꯃꯔꯣꯝꯗ,
ꯊꯤꯖꯤꯅ ꯂꯨꯞ ꯑꯁꯤꯅ ꯇꯣꯄꯣꯂꯣꯂꯣꯒꯤꯀꯦꯜ ꯗꯤꯐꯦꯛꯠꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯔꯒ ꯌꯥꯝꯅ ꯄꯤꯛꯄ ꯗꯤꯚꯥꯏꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯃꯐꯝ ꯑꯃꯗꯒꯤ ꯑꯇꯣꯞꯄ ꯃꯐꯝ ꯑꯃꯗ ꯃꯍꯤ ꯑꯣꯏꯕ ꯅꯠꯇ꯭ꯔꯒ
ꯑꯇꯣꯞꯄ ꯄꯣꯠꯁꯤꯡꯒꯤ ꯌꯥꯝꯗꯕ ꯆꯥꯡꯁꯤꯡꯕꯨ ꯄꯨꯔꯒ ꯆꯠꯍꯟꯕ ꯌꯥꯒꯅꯤ ꯍꯥꯏꯕꯒꯤ ꯊꯥꯖꯕꯁꯨ
ꯊꯝꯂꯤ꯫ ꯑꯍꯤꯡꯕ ꯁꯦꯜ ꯑꯃꯒꯤ ꯃꯅꯨꯡꯗ ꯃꯍꯧꯁꯥꯒꯤ ꯑꯣꯏꯕ ꯊꯧꯑꯣꯡꯅ ꯏꯟꯐꯣꯔꯃꯦꯁꯟ
ꯅꯠꯇ꯭ꯔꯒ ꯄꯣꯠ ꯑꯃꯕꯨ ꯃꯐꯝ ꯑꯃꯗꯒꯤ ꯑꯇꯣꯞꯄ ꯃꯐꯝ ꯑꯃꯗ ꯊꯥꯈꯤꯕꯒꯤ ꯃꯇꯧꯒꯨꯝꯅ,
ꯈꯨꯠꯁꯦꯝꯒꯤ ꯁꯦꯜ ꯑꯃꯒꯤ ꯃꯅꯨꯡꯗ ꯃꯊꯧꯁꯤꯡ ꯄꯥꯡꯊꯣꯛꯍꯟꯕ ꯌꯥꯒꯅꯤ ꯍꯥꯏꯅ ꯆꯥꯡꯅ ꯃꯈꯥ
ꯇꯥꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫ =

ꯑꯊꯣꯠꯄ ꯄꯣꯠꯁꯤꯡꯕꯨ ꯔꯣꯕꯣꯇꯤꯛꯁ ꯑꯃꯁꯨꯡ ꯀꯝꯄ꯭ꯌꯨꯇꯤꯡꯗ ꯁꯤꯖꯤꯟꯅꯕ
ꯁꯥꯏꯟꯁꯀꯤ ꯈꯣꯡꯆꯠ
ꯀꯨꯟꯖꯣ ꯅꯥꯎꯔꯦꯝ
ꯏꯀꯥꯏꯈꯨꯝꯅꯖꯔꯤꯕ ꯑꯦꯗꯤꯇꯔ,
ꯁ꯭ꯇꯦꯠꯁꯤꯗ 11ꯁꯨꯕ ꯕꯤꯙꯥꯟ ꯁꯚꯥ ꯐꯥꯎꯕꯗ ꯑꯦꯟ ꯕꯤꯔꯦꯟꯅ ꯀꯨꯟꯃꯔꯤꯒꯨꯕ ꯆꯤꯐ
ꯃꯤꯅꯤꯁꯇꯔꯅꯤ꯫ 12ꯁꯨꯕ ꯕꯤꯙꯥꯟ ꯁꯚꯥꯒꯤ ꯏꯂꯦꯛꯁꯟ ꯃꯃꯥꯡ ꯐꯥꯎꯕꯗ ꯄꯣꯂꯤꯇꯤꯀꯦꯜ
ꯄꯥꯔꯇꯤꯁꯤꯡꯅ ꯃꯥꯒꯤ ꯃꯥꯒꯤ ꯃꯦꯅꯤꯁꯐꯦꯁꯇꯣ ꯐꯣꯡꯅꯈ꯭ꯔꯦ꯫ ꯄꯣꯂꯤꯇꯤꯀꯦꯜ ꯄꯥꯔꯇꯤ ꯈꯔꯗꯤ ꯃꯤꯔꯦꯞ ꯑꯃꯠꯇ ꯐꯥꯎꯕ ꯊꯥꯒꯠꯄ ꯉꯝꯗꯅ ꯃꯦꯅꯤꯐꯦꯁꯇꯣꯗꯤ ꯐꯣꯡꯅꯔꯤ꯫ ꯐꯣꯡꯅꯈꯤꯕ (ꯋꯥꯁꯛꯈꯤꯕ) ꯃꯦꯅꯤꯐꯦꯁꯇꯣꯁꯤꯡꯁꯤꯗꯤ ꯑꯃꯠꯇ ꯐꯨꯜ-ꯐꯤꯜ ꯑꯣꯏꯈꯤꯗꯦ, ꯃꯨꯟꯅ ꯈꯟꯊꯔꯨꯔꯒꯗꯤ ꯍꯥꯏꯅꯤꯡꯉꯥꯏ ꯂꯩꯇꯅ ꯏꯀꯥꯏꯅꯤꯡꯉꯥꯏꯅꯤ꯫ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯄꯣꯂꯤꯇꯤꯀꯦꯜ ꯄꯥꯔꯇꯤꯁꯤꯡꯒꯤ ꯂꯤꯗꯔꯁꯤꯡ ꯑꯃꯗꯤ ꯁꯦꯟꯇꯔꯅ
ꯏꯔꯝꯗꯝ ꯃꯅꯤꯄꯨꯔꯕꯨ ꯌꯥꯝꯅ ꯂꯨꯅ ꯇꯧꯗꯕ ꯌꯥꯗꯕꯅꯤ, ꯂꯨꯝꯅ ꯈꯟꯒꯗꯕꯅꯤ ꯍꯥꯏꯕꯁꯤ ꯏꯖꯔꯤꯕ ꯑꯩꯒꯤ ꯋꯥꯈꯜꯂꯣꯟꯅꯤ꯫ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯁ꯭ꯇꯦꯠꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯃꯅꯤꯄꯨꯔꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯍꯦꯜꯂꯤ, ꯍꯤꯔꯝ ꯈꯨꯗꯤꯡꯃꯛ ꯄꯥꯔꯁꯦꯟꯇꯦꯖꯒꯤ ꯌꯦꯡꯕꯗ꯫ ꯈꯨꯗꯝ ꯈꯔ ꯑꯣꯏꯅ ꯄꯣꯠꯊꯣꯛꯇ ꯃꯍꯥꯎ ꯂꯩꯕ ꯆꯦꯡ, ꯑꯥꯂꯨ, ꯇꯤꯜꯍꯧ, ꯆꯅꯝ, ꯃꯣꯔꯣꯛ, ꯀꯣꯕꯤ, ꯉꯥꯇꯣꯟ, ꯈꯥꯕꯛ, ꯄꯦꯡꯕ, ꯁꯔꯦꯡ ꯁꯪꯒꯣꯝ, ꯌꯦꯔꯨꯝ, ꯀꯛꯌꯦꯟ, ꯉꯥꯃꯨ, ꯉꯥꯀ꯭ꯔꯥ, ꯎꯀꯥꯕꯤ ꯑꯁꯤꯅꯆꯤꯡꯕ ꯄꯨꯝꯅꯃꯛ ꯁ꯭ꯇꯦꯠꯁꯤꯒꯤ ꯄꯣꯠꯊꯣꯛꯅ ꯂꯣꯏꯅ ꯍꯦꯜꯂꯤ ꯍꯥꯏꯕꯁꯤ ꯍꯥꯏꯃꯟꯕ ꯊꯣꯛꯂꯣꯏ꯫ ꯍꯦꯟꯗꯂꯨꯝ ꯑꯦꯟꯗ ꯍꯦꯟꯗꯤꯀ꯭ꯔꯥꯐꯠ, ꯑꯥꯔꯠ ꯑꯦꯟꯗ ꯀꯜꯆꯔ, ꯁ꯭ꯄꯣꯔꯠꯁ, ꯌꯨ ꯄꯤ ꯑꯩꯁ ꯁꯤ ꯑꯦꯒꯖꯥꯝꯒꯤ ꯄꯔꯁꯦꯟꯇꯦꯖꯗꯁꯨ ꯁ꯭ꯇꯦꯠꯁꯤꯅ ꯍꯦꯜꯂꯤ꯫ ꯁ꯭ꯄꯣꯔꯠꯁ ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤ, ꯀꯜꯆꯔꯦꯜ ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤ, ꯃꯅꯤꯄꯨꯔ ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤ, ꯑꯦꯏꯝꯁ ꯑꯃꯁꯨ ꯂꯩꯔꯒꯅꯤ ꯍꯥꯏꯕ ꯇꯥꯔꯦ꯫ ꯈ꯭ꯋ aIdgi ꯃꯔꯨ ꯑꯣꯏꯕ ꯑꯃꯅ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯏꯖꯠ ꯏꯔꯝꯗꯝ ꯃꯅꯤꯄꯨꯔꯅ ꯄꯨꯔꯛꯂꯤꯕꯅꯤ ꯍꯥꯏꯕꯁꯤ ꯄꯨꯝꯅꯃꯛꯅ ꯈꯪꯅꯔꯕ ꯉꯥꯛꯇꯅꯤ꯫ ꯃꯆꯥ ꯃꯆꯥ-ꯇꯔꯨꯛ ꯄꯣꯛꯄ ꯃꯃꯥ-ꯃꯄꯥꯟ ꯑꯉꯥꯡ ꯑꯁꯤꯃꯗꯤ ꯁꯣꯏꯔꯔꯣꯏ ꯈꯟꯕ ꯑꯉꯥꯡꯗ ꯍꯦꯟꯅ ꯁꯦꯝꯅꯤꯡꯕ, ꯂꯧ-ꯁꯉꯝ ꯃꯉꯥ- ꯇꯔꯨꯛ ꯎꯕ ꯂꯧꯃꯤꯅ ꯑꯐꯕ ꯂꯧꯐꯝ ꯑꯗꯨꯗ ꯍꯦꯟꯅ ꯁꯦꯝꯅꯤꯡꯕ, ꯌꯦꯡꯅꯤꯡꯕ ꯑꯗꯨꯒꯨꯝꯅ
ꯁꯦꯟꯇꯔꯅ ꯏꯔꯝꯗꯝ ꯃꯅꯤꯄꯨꯔꯕꯨ ꯑꯇꯩ ꯁ꯭ꯇꯦꯠꯁꯤꯡꯗꯒꯤ ꯍꯦꯟꯅ ꯈꯟꯐꯝ ꯊꯣꯛꯄꯅꯤ ꯍꯥꯏꯖꯔꯤꯕꯁꯤ ꯏꯖꯔꯤꯕ ꯑꯩꯒꯤ ꯋꯥꯈꯜꯂꯣꯟꯅꯤ꯫ ꯄꯨꯝꯅꯃꯛ ꯑꯁꯤ ꯈꯟꯊꯔꯨꯔꯒꯗꯤ, ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯂꯥꯏꯕ ꯊꯤꯕꯗꯤ ꯂꯦꯖꯤꯁꯂꯦꯆꯔ 60 ꯑꯁꯤꯅ ꯚꯣꯠ ꯃꯃꯥꯡꯗ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯕꯨ ꯅꯤꯡꯁꯤꯡꯈꯤꯕ ꯑꯗꯨꯒꯨꯝꯅ ꯚꯣꯠ ꯀꯥꯔꯕ ꯃꯇꯨꯡꯗꯁꯨ ꯅꯤꯡꯁꯤꯡꯂꯕꯗꯤ (ꯋꯥꯁꯛꯈꯤꯕꯁꯤꯡ) ꯂꯣꯏꯅ ꯁꯛꯇꯤ ꯃꯨꯟꯅꯗ꯭ꯔꯕꯗꯤ, ꯊꯧꯔꯤ ꯆꯤꯡꯅꯗ꯭ꯔꯕꯗꯤ, ꯒ꯭ꯔꯨꯄꯤꯆꯝ ꯁꯦꯝꯅꯗ꯭ꯔꯕꯗꯤ, ꯆꯤꯡ-ꯇꯝ ꯑꯃꯠꯇꯅꯤ ꯈꯟꯕꯒ ꯂꯣꯏꯅꯅ ꯁꯦꯀ꯭ꯔꯤꯐꯥꯏꯁꯁꯤꯡ ꯂꯩꯅꯔꯕꯗꯤ ꯆꯪꯈ꯭ꯔꯤ ꯁꯦꯟꯐꯝ ꯍꯟꯖꯤꯟꯅꯕ ꯍꯣꯠꯅꯗ꯭ꯔꯕ, ꯕꯗꯖꯦꯠꯀꯤ ꯁꯦꯟꯐꯝ ꯑꯥꯔꯠ ꯑꯦꯟꯗ ꯗꯀꯜꯆꯔ, ꯁ꯭ꯄꯣꯔꯠꯁ, ꯑꯦꯗ꯭ꯌꯨꯀꯦꯁꯟ, ꯍꯦꯜꯊ, ꯏꯊꯩ ꯂꯧꯈꯣꯡ ꯑꯁꯤꯅꯆꯤꯡꯕ ꯃꯇꯨꯡ ꯑꯣꯏꯕꯒꯤ ꯁꯦꯟꯐꯝ ꯍꯦꯟꯅ ꯍꯥꯞꯄꯤꯔꯕꯗꯤ ꯍꯧꯈꯤꯕ ꯆꯤꯐ ꯃꯤꯅꯤꯁꯇꯔ ꯀꯨꯟꯃꯔꯤꯒꯤ ꯃꯃꯥꯡꯗꯒꯤ ꯏꯔꯝꯗꯝ ꯃꯅꯤꯄꯨꯔ ꯑꯁꯤ ꯃꯥꯂꯦꯝꯒꯤ ꯃꯅꯨꯡꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯥꯎꯈꯠꯄ ꯁ꯭ꯇꯦꯠ ꯑꯃ ꯑꯣꯏꯔꯝꯒꯗꯕꯅꯤ꯫
ꯑꯔꯣꯏꯕ ꯑꯣꯏꯅ ꯄꯥꯡꯊꯣꯛꯈ꯭ꯔꯤꯕ 12ꯁꯤꯕ ꯕꯤꯙꯥꯟ ꯁꯚꯥꯒꯤ ꯆꯤꯡ-ꯇꯝꯒꯤ ꯂꯦꯖꯤꯁꯂꯦꯆꯔ 50 (ꯄꯣꯂꯤꯁꯤ ꯃꯦꯀꯤꯡ ꯕꯣꯗꯤ) ꯑꯁꯤꯅ ꯃꯍꯥꯔꯥꯁꯇ꯭ꯔꯒꯤ ꯗꯤꯁꯇ꯭ꯔꯤꯛꯠ ꯑꯃꯅ ꯍꯦꯟꯅ ꯆꯥꯎꯕ ꯄꯤꯛꯈ꯭ꯔꯕ ꯏꯔꯝꯗꯝ ꯃꯅꯤꯄꯨꯔꯒꯤ ꯈꯟꯊꯔꯒ ꯗ꯭ꯔꯤꯒ ꯀꯔꯕꯥꯔ ꯑꯃꯗꯤ ꯀꯔꯞꯟ ꯑꯅꯤ ꯑꯁꯤꯗꯪ ꯃꯨꯠꯊꯠꯂꯕꯗꯤ ꯁꯅꯥ ꯂꯩꯕꯥꯛ ꯃꯅꯤꯄꯨꯔ ꯑꯁꯤ ꯃꯥꯂꯦꯝꯒꯤ ꯂꯩꯕꯥꯛꯁꯤꯡꯅ ꯖꯪꯒꯜꯗ ꯂꯩꯕ ꯅꯣꯡꯁꯥ (ꯁꯥꯍꯤꯡ ꯆꯥꯕ) ꯗꯒꯤ ꯍꯦꯟꯅ ꯀꯤꯟꯅꯒꯅꯤ ꯍꯥꯏꯅ ꯏꯖꯔꯤꯕ ꯑꯩꯅ ꯈꯟꯖꯩ꯫ ꯂꯣꯏꯅꯅ ꯚꯣꯠꯇ ꯆꯪꯈ꯭ꯔꯤꯕ ꯁꯦꯟꯐꯝꯁꯤꯡ ꯍꯟꯖꯤꯅꯅꯕ ꯍꯣꯠꯅꯕꯒꯤ ꯃꯍꯨꯠꯇ ꯃꯤꯌꯥꯝꯗ ꯀꯠꯊꯣꯛꯈ꯭ꯔꯕꯅꯤ ꯈꯟꯕꯤꯔꯕꯗꯤ ꯃꯊꯪꯒꯤ
ꯆꯍꯤ ꯃꯉꯥꯒꯤ ꯍꯥꯏꯕꯔꯤ 13ꯁꯨꯕ ꯕꯤꯙꯥꯅ ꯁꯚꯥꯒꯤ ꯏꯂꯦꯛꯁꯟꯗꯁꯨ ꯃꯥꯏ ꯄꯥꯛꯅꯕꯒꯤ ꯌꯥꯏꯐ ꯊꯧꯖꯥꯜ ꯄꯤꯕꯤꯕ ꯑꯣꯏꯁꯅꯨ ꯍꯥꯏꯅ ꯇꯥꯏꯕꯪ ꯁꯦꯝꯕ ꯃꯄꯨꯒꯤ ꯃꯐꯝꯗ ꯊꯧꯅꯤꯖꯔꯤ꯫
ꯑꯗꯣꯝꯒꯤ - ꯊꯤꯡꯕꯥꯏꯖꯝ ꯏꯇꯣꯕꯤ
ꯇꯣꯞ ꯑꯋꯥꯡ ꯂꯩꯀꯥꯏ
ꯑꯦꯗꯤꯇꯔꯗ ꯊꯥꯔꯛꯄ ꯋꯥꯀꯠ, ꯃꯤꯌꯥꯝꯒꯤ ꯈꯣꯜꯂꯥꯎ, ꯄꯥꯎꯗꯝ ꯑꯃꯁꯨꯡ ꯑꯇꯩ-ꯑꯇꯩ
ꯑꯦꯝ ꯑꯦꯜ ꯑꯦ 60ꯒꯤ ꯋꯥꯈꯜ
ꯑꯣꯔꯗꯔꯗ ꯁ꯭ꯇꯔꯛꯆꯔꯁꯤꯡ
ꯇꯥꯏꯅꯐꯝꯁꯤꯡꯗ
ꯂꯩꯔꯤꯕ
"ꯗꯤꯐꯦꯛꯠ"ꯁꯤꯡ